

Author Index

Volume 76, January-June 1995

- Aalkjær C, 269
 Aaronson PI, 310
 Abboud FM, 426
 Abe T, 95
 Abo T, 726
 Abounader R, 120
 Adam LP, 183
 Aiello S, 536
 Akella AB, 600
 Allen PD, 681
 Analbers L, 802
 Anderson KE, 252, 261
 Anderson PAW, 681
 Andreasen F, 269
 Andries LJ, 878
 Antzelevitch C, 351
 Ao L, 73
 Arieff AI, 551
 Armentano RL, 468
 Askew GR, 584
 Atar D, 1036
 Atsma DE, 199, 1071
 Avontuur JAM, 418
 Aw TY, 30
- Baasten AMJ, 871
 Bachmann J, 675
 Backx PH, 1036
 Banerjee A, 73
 Bangert M, 861
 Barnett JV, 852
 Barra JG, 468
 Bastiaanse EML, 1071
 Bates JN, 426
 Becker RP, 773
 Bendayan M, 566
 Berdichevski F, 209
 Beyer EC, 381
 Beyer T, 861
 Bhatnagar A, 293
 Blank RS, 742
 Blatter LA, 922
 Bloch KD, 215
 Bobik A, 973
 Boeynaems J-M, 191
 Boheler KR, 616
 Bolli R, 82
 Bond M, 1011
 Bonz A, 720
 Bouchard RA, 790
 Boulanger CM, 1003
 Bouman LN, 607
 Bourier J, 607
 Brain SD, 441
 Brown AM, 343
 Brown JM, 73
 Brownlee M, 161
 Bruining HA, 418
 Brutsaert DL, 878
 Buccafusco JJ, 142
 Busse R, 522, 980
- Calderone A, 758
 Caldwell RW, 927
 Callewaert G, 102
- Cannell MB, 236
 Canty JM Jr, 1079
 Carmeliet E, 102
 Casis O, 223
 Chapleau MW, 426
 Cheng GC, 209
 Cheng H, 236
 Cheng R, 600
 Chiamvimonvat N, 325
 Chiao H, 927
 Chisolm GM, 996
 Cho A, 168
 Chowdhury NC, 900
 Christensen G, 767
 Chujo M, 1088
 Clark RB, 790
 Clarke MSF, 927
 Clemmons DR, 514
 Cole WC, 812
 Collier ML, 317
 Colucci WS, 758, 852
 Communi D, 191
 Conanan LB, 16
 Cornelius T, 489
 Cornhill JF, 996
 Couper GS, 852
 Courtman DW, 168
 Crutchley DJ, 16
- Damron DS, 1011
 Darrow BJ, 381
 Dart AM, 261
 Darvish A, 1011
 Davies JE, 825
 De Biasi M, 343
 de Jonge B, 802
 De Keulenaer GW, 878
 de Tombe PP, 734
 Delafontaine P, 963
 DeLano FA, 276
 Delpón E, 223
 DeRuiter MC, 871
 Deslauriers R, 839
 Dichek DA, 701
 DiCorleto PE, 505
 Ding X-L, 600
 Diriong S, 687
 Distler A, 21
 Dominguez JH, 530
 Donadelli R, 536
 Donetti E, 405
 Draijer R, 199
 Dreher D, 388
 D'Souza S, 505
 Du J, 963
 Duling BR, 498
 Dunn MJ, 987
- Edelman ER, 176
 Edwards JG, 907
 Eto K, 284
 Eto T, 935
- Faber JE, 53
 Faraci FM, 1057
- Farrell CL, 505
 Federoff HJ, 161
 Feldman AM, 852
 Ferrier GR, 664
 Fisslthaler B, 522, 980
 Fleming I, 522
 Flockerzi V, 325
 Foppolo M, 536
 Fralix T, 457
 Franceschini G, 405
 Franklin MT, 183
 Frendl G, 575
 Fujimori Y, 148
 Fujita H, 626
 Fullerton M, 973
 Fumagalli R, 405
 Funder JW, 973
- Galbani P, 1049
 Galper JB, 852
 Gao WD, 1036
 Gao Y, 559
 Gardin JM, 907
 Ge T, 1003
 Giachelli CM, 951
 Giaid A, 767
 Giles WR, 790
 Gilmour RF Jr, 915
 Gittenberger-de Groot AC, 871
 Glasgow W, 457
 Go LO, 412
 Gockerman A, 514
 Goldberg MA, 758
 Goormastic M, 996
 Gordon D, 305
 Goresky CA, 566
 Granger DN, 30
 Grant AO, 832
 Green S, 335
 Greig A, 681
 Grisham MB, 30
 Gros D, 802
 Groß I, 675
 Guinasso PJ Jr, 110
 Gulati J, 600
 Gutterman DD, 95
 Guzman LA, 505, 996
- Haller H, 21
 Haliwanger B, 242
 Han X, 664
 Hanaoka K, 148
 Hanawa H, 726
 Harken AH, 73
 Haruyama S, 1088
 Hashimoto K, 284
 Hathaway DR, 183
 Hayasaka M, 148
 Heidlage JF, 366
 Heistad DD, 1057
 Hemler ME, 209
 Heusch G, 942
 Hirano Y, 592
 Hiraoka M, 592
 Hirata K-i, 958
- Hiroi Y, 148
 Hofmann F, 325
 Rogers B, 871
 Howard RL, 530
 Hoyt RF Jr, 701
 Huang A, 544
 Hughes H, 1003
 Hume JR, 317
- Ichiki T, 693
 Iida A, 1088
 Ikeda U, 750
 Inagami T, 693
 Ince C, 418
 Inglese J, 832
 Inomata T, 726
 Izumi T, 726
 Izumo S, 1, 489
- Jabr RI, 812
 Jayaraman T, 412
 Jeroudi MO, 82
 Jerzewski A, 1071
 Johnson JA, 654
 Johnston RA, 710
 Jones RC, 215
 Jongsma HJ, 802
 Jorrot L, 388
 Junod AF, 388
 Junquero DC, 1003
 Jurkiewicz NK, 110
- Kagaya Y, 489
 Kajekar R, 441
 Kaley G, 544
 Kallen RG, 325
 Kamp TJ, 325
 Kanno M, 892
 Kano S, 750
 Karas M, 675
 Kasahara T, 750
 Kass DA, 132
 Katayama K, 335
 Katoh H, 148
 Kawasaki H, 935
 Kawashima S, 958
 Kay BK, 681
 Khalil RA, 1101
 Kitabatake A, 892
 Kitagawa S-I, 750
 Kitazono T, 1057
 Kitsis RN, 907
 Koban MU, 616
 Koch WJ, 832
 Kodama M, 726
 Kohya T, 892
 Koller A, 544
 Kolpakov V, 305
 Koren G, 758
 Korth M, 645
 Kozniowska E, 551
 Kübler W, 861
 Kucharczyk J, 551
 Kulik TJ, 305
 Kupriyanov VV, 839

- Kurjiaka DT, 885
 Kuroda Y, 958
 Kuro-o M, 148
 Kurose I, 30
 Kuschinsky W, 120
 Kuznetsov V, 40
 Kwak J, 839
 Kwatra MM, 832

 Labhasetwar V, 505
 Lafont A, 996
 Laing JG, 381
 Lamers WH, 616
 Lampe PD, 381
 Langille BL, 168
 Lassen NA, 269
 Lederer WJ, 236
 Lee RT, 209
 Lefkowitz RJ, 832
 Leinwand LA, 907
 Levenson J, 468
 Levi R, 434
 Levy AP, 758
 Levy NS, 758
 Levy RJ, 505
 Lewis SJ, 426
 Li L, 396
 Liang BT, 242
 Liao H, 900
 Lin W-I, 710
 Lindner V, 951
 Lindschau C, 21
 Linn SC, 584
 Lipsius SL, 634
 Little TL, 498
 Liu D-W, 351
 Logeart D, 687
 Loh E, 852
 Lorell BH, 489
 Loscalzo J, 758
 Luft FC, 21
 Lynch JJ Jr, 110
 Lyson T, 127

 Maita T, 726
 Majumder K, 343
 Malinski T, 922
 Malouf NN, 681
 Mandveno A, 1028
 Marban E, 325, 1036
 Mariani M, 1049
 Mark TM, 681
 Marks AR, 412
 Marquetant R, 861
 Marsen TA, 987
 Marx SO, 412
 Masaki T, 284
 Masuyama J-I, 750
 Matsuda T, 426
 McDonald KS, 154
 McNeil PL, 927
 Meissner M, 675
 Meng X, 73
 Menice CB, 1101
 Menon AG, 584
 Mercadier J-J, 687
 Mesaros S, 922
 Mesnard L, 687
 Mesri EA, 161
 Metzger JM, 710
 Michel G, 720
 Michler RE, 900
 Miki N, 958
 Milici A, 142

 Minshall RD, 773
 Mitchell JH, 127
 Mitchell MB, 73
 Miyagishi A, 148
 Miyake K, 927
 Miyashita T, 726
 Mochly-Rosen D, 654
 Momomura S-i, 626
 Moore PK, 441
 Moorman AFM, 616
 Morano I, 720
 Moravec CS, 1011
 Morgan DA, 95
 Morgan JP, 1
 Morgan KG, 1101
 Mori H, 1088
 Mori Y, 335
 Morigi M, 536
 Moss RL, 154, 781
 Mukherjee D, 1020
 Mulvany MJ, 269
 Murphy E, 457
 Murphy LA, 1011

 Nabeshima Y-i, 148
 Naess PA, 767
 Nagai R, 148
 Nair LA, 832
 Naka Y, 900
 Nakamura F, 773
 Nakaya H, 892
 Nakayama S, 726
 Nakazawa H, 1088
 Newman KD, 701
 Neylon CB, 973
 Ng LL, 825
 Niidome T, 335
 Niroomand F, 861
 Noguchi T, 148
 Nordhoff E, 675
 Noris M, 536

 Oakeley AE, 681
 Ogilvie RW, 448
 Olson EN, 742
 Ono K, 284
 Orisio S, 536
 O'Rourke B, 325
 Oseka M, 551
 Otani NF, 915
 Owens GK, 742
 Oz MC, 900, 1063

 Pak E, 40
 Parolini C, 405
 Pérez O, 223
 Pettersen MD, 95
 Pichell RH, 468
 Pinsky DJ, 900
 Pirotton S, 191
 Plow EF, 505
 Poelmann RE, 871
 Poptic EJ, 505
 Post H, 942
 Potter JD, 1028

 Qiu Z, 1
 Quass P, 21
 Que BG, 16

 Rabito SF, 773
 Raff GJ, 183
 Raj JU, 559
 Rasio EA, 566

 Raspe E, 191
 Rauch B, 861
 Recchia F, 132
 Reenstra WR, 575
 Reidy MA, 951
 Remuzzi A, 536
 Remuzzi G, 536
 Riegger G, 489
 Ritter O, 720
 Roberts CT, 215
 Roberts JD Jr, 215
 Roberts TPL, 551
 Robinson RB, 40
 Rome JJ, 701
 Ronca G, 1049
 Ronca-Testoni S, 1049
 Rosenberg RD, 176
 Roy DK, 900
 Rubin LE, 434

 Sada T, 284
 Sadoshima J, 1
 Sadoshima J-i, 489
 Saeki A, 132
 Saffitz JE, 381
 Saito H, 892
 Sakamoto A, 284
 Sakamoto H, 1088
 Sakka S, 942
 Sakoda T, 958
 Salata JJ, 110
 Saleh D, 767
 Samson F, 687
 Samuelson LC, 710
 Sata M, 626
 Schachtner SK, 701
 Schauer R, 64
 Schlüter H, 675
 Schmid-Schönbein GW, 276
 Schray-Utz B, 980
 Schultheis H-P, 64
 Schulz R, 942
 Schulze K, 64
 Schunkert H, 489
 Schwartz K, 616
 Schwartz SM, 951
 Schwencke C, 861
 Secher NH, 127
 Segal SS, 885
 Sekili S, 82
 Sen S, 1020
 Serizawa T, 626
 Shacklock PS, 922
 Shen K, 276
 Shen Y-T, 479
 Shibata A, 726
 Shibata K, 284
 Shimada K, 750
 Shinozaki Y, 1088
 Shull GE, 584
 Siczowski M, 825
 Sil P, 1020
 Simon A, 468
 Simons M, 176
 Simonson MS, 987
 Singh G, 530
 Sipido KR, 102
 Siri FM, 907
 Siros MG, 176
 Sirtori CR, 405
 Smirnov SV, 310
 Smith TP Jr, 1079
 Solcimani M, 530
 Soma MR, 405

 Sorota S, 1063
 Spach MS, 366
 Specian RD, 30
 Spieker C, 675
 Stahl GL, 575
 Steenbergen C, 457
 Steinberg SF, 40
 Stewart LC, 839
 Stienen GJM, 734
 Stoffel R, 832
 Strasser RH, 861
 Strauer BE, 64
 Stupinski RF III, 110
 Sugiura S, 626
 Sun D, 544
 Sun J-Z, 82
 Suss MB, 252
 Swartz EA, 742
 Sweet W, 1011
 Sys SU, 878

 Tagliatela M, 343
 Taguchi H, 1057
 Taha Z, 922
 Takahashi M, 750
 Takahashi N, 758
 Takahashi Y-I, 750
 Takenaga M, 935
 Takewaki S-i, 148
 Tamargo J, 223
 Tanaka I, 335
 Tang X-L, 82
 Tateishi J, 53
 Taviaux S, 687
 ten Velde I, 802
 Tepel M, 675
 Terjung RL, 448
 Thompson MM, 742
 Tian R, 269
 Timek T, 720
 Todeschini M, 536
 Tohse N, 892
 Tønnessen T, 767
 Topol EJ, 505
 Tsujimoto G, 284

 Uddin-Mohammed M, 1088
 Ungerleider RM, 681

 Vahl CF, 720
 Valenzuela C, 223
 van Breemen C, 396
 van der Giet M, 675
 Van der Laarse A, 199, 1071
 Van der Valk LJM, 1071
 van Ginneken ACG, 607
 van Hinsbergh VWM, 199
 van Kempen MJA, 802
 Vanhoutte PM, 1003
 Vatner DE, 852
 Vatner SF, 479
 Verheijck EE, 607, 802
 Vermeulen JLM, 616
 Vexler ZS, 551
 Victor RG, 127
 Villa AE, 505
 Virmani R, 701
 Vogel J, 120
 Vogel P, 269

 Wada A, 935
 Wakamori M, 335
 Wallace AA, 110
 Wallbridge DR, 942

- Wang C-LA, 1101
 Wang YG, 634
 Wang Y-X, 645
 Watanabe M, 915
 Wehling M, 973
 Wei J, 142
 Weinberg EO, 489
 Weinbrenner C, 861
 Weis A, 861
 Westfall MV, 710
 Whitesell LF, 781
 Whitlow PL, 996
 Wible BA, 343
 Wier WG, 922
 Witzel H, 675
 Witzenbichler B, 64
 Wolf R, 30
 Wolff MR, 154, 781
 Woodcock EA, 252, 261
 Wu KK, 1003
 Xia J, 498
 Xiang B, 839
 Yajima E, 726
 Yamamoto S, 335
 Yamashita H, 626
 Yanagisawa M, 767
 Yang HT, 448
 Yatani A, 335
 Yazaki Y, 148
 Yeo K-T, 758
 Yokoshiki H, 892
 Yokoyama M, 958
 Yu G, 1049
 Zapol WM, 215
 Zeiher AM, 980
 Zhang R, 1028
 Zhang S, 592
 Zhao J, 1028
 Zhou H, 559
 Zidek W, 675
 Zucchi R, 1049
 Zughuib M, 82
 Zweifach BW, 276

Subject Index

Volume 76, January-June 1995

A

Accelerated arteriosclerosis

Rapamycin-FKBP Inhibits Cell Cycle Regulators of Proliferation in Vascular Smooth Muscle Cells, 412

Acetylcholine

Calcitonin Gene-Related Peptide Mediates Acetylcholine-Induced Endothelium-Independent Vasodilation in Mesenteric Resistance Blood Vessels of the Rat, 935

Endothelium-Dependent Contractions Are Associated With Both Augmented Expression of Prostaglandin H Synthase-1 and Hypersensitivity to Prostaglandin H₂ in the SHR Aorta, 1003

Endothelium-Derived Nitric Oxide Plays a Larger Role in Pulmonary Veins Than in Arteries of Newborn Lambs, 559

Interaction Between Conducted Vasodilation and Sympathetic Nerve Activation in Arterioles of Hamster Striated Muscle, 885

Action potential

Effects of Doxorubicin on Excitation-Contraction Coupling in Guinea Pig Ventricular Myocardium, 645

Action potential clamp

Effects of Action Potential Duration on Excitation-Contraction Coupling in Rat Ventricular Myocytes: Action Potential Voltage-Clamp Measurements, 790

Action potential duration

Effects of Action Potential Duration on Excitation-Contraction Coupling in Rat Ventricular Myocytes: Action Potential Voltage-Clamp Measurements, 790

Actomyosin ATPase activity

Protein Kinase A Does Not Alter Economy of Force Maintenance in Skinned Rat Cardiac Trabeculae, 734

Adenosine

Adenosine-Recrutable Flow Reserve Is Absent During Myocardial Ischemia in Unanesthetized Dogs Studied in the Basal State, 1079

Effect of Adenosine on Myocardial 'Stunning' in the Dog, 82

Role of Adenosine in Postischemic Dysfunction of Coronary Innervation, 95

Adenosine receptor

Adenosine A₂ and A_{2B} Receptors in Cultured Fetal Chick Heart Cells: High- and Low-Affinity Coupling to Stimulation of Myocyte Contractility and cAMP Accumulation, 242

Adenovirus

In Vivo Adenovirus-Mediated Gene Transfer Via the Pulmonary Artery of Rats, 701

Adenylate cyclase

Decreased Adenylate Cyclase Activity and Expression of G₁₀ in Human Myocardium After Orthotopic Cardiac Transplantation, 852

Adenylyl cyclase

Impaired Function of Inhibitory G Proteins During Acute Myocardial Ischemia of Canine Hearts and Its Reversal During Reperfusion and a Second Period of Ischemia: Possible Implications for the Protective Mechanism of Ischemic Preconditioning, 861

Adhesion

Circulating Leukocyte Counts, Activation, and Degranulation in Dahl Hypertensive Rats, 276

Integrin-Mediated Collagen Matrix Reorganization by Cultured Human Vascular Smooth Muscle Cells, 209

ADP-ATP carrier

Antibody-Mediated Imbalance of Myocardial Energy Metabolism: A Causal Factor of Cardiac Failure? 64

Adrenal gland

Coenzyme A Glutathione Disulfide: A Potent Vasoconstrictor Derived From the Adrenal Gland, 675

Adrenergic receptor

Interaction Between Conducted Vasodilation and Sympathetic Nerve Activation in Arterioles of Hamster Striated Muscle, 885

α -Adrenergic receptor

ATP-Sensitive K⁺ Channels Mediate α_{2D} -Adrenergic Receptor Contraction of Arteriolar Smooth Muscle and Reversal of Contraction by Hypoxia, 53

α_1 -Adrenergic receptor

Preconditioning of Isolated Rat Heart Is Mediated by Protein Kinase C, 73

β -Adrenergic receptor

Contribution of Na⁺-Ca²⁺ Exchange to Stimulation of Transient Inward Current by Isoproterenol in Rabbit Cardiac Purkinje Fibers, 664

β_1 -Adrenergic receptor

Stable Expression and Coupling of Cardiac L-Type Ca²⁺ Channels With β_1 -Adrenoceptors, 335

β -Adrenergic receptor kinase

Cardiac Muscarinic Potassium Channel Activity Is Attenuated by Inhibitors of G_q, 832

β -Adrenergic receptor subtype

β_2 -Adrenergic Receptor Actions in Neonatal and Adult Rat Ventricular Myocytes, 40

β -Adrenergic stimulation

Protein Kinase A Does Not Alter Economy of Force Maintenance in Skinned Rat Cardiac Trabeculae, 734

Adrenergic tone

Adenosine-Recrutable Flow Reserve Is Absent During Myocardial Ischemia in Unanesthetized Dogs Studied in the Basal State, 1079

Affinity constant

Quantification of Myotrophin From Spontaneously Hypertensive and Normal Rat Hearts, 1020

Aftercontraction

Relationship Between Intracellular Calcium and Contractile Force in Stunned Myocardium: Direct Evidence for Decreased Myofilament Ca²⁺ Responsiveness and Altered Diastolic Function in Intact Ventricular Muscle, 1036

Aging

Systolic Flow Augmentation in Hearts Ejecting Into a Model of Stiff Aging Vasculature: Influence on Myocardial Perfusion-Demand Balance, 132

Aldosterone

Nongenomic Effects of Aldosterone on Intracellular Ca²⁺ in Vascular Smooth Muscle Cells, 973

Alkaline phosphatase

Circulating Leukocyte Counts, Activation, and Degranulation in Dahl Hypertensive Rats, 276

Alternative exon

Conservation of an AE3 Cl⁻/HCO₃⁻ Exchanger Cardiac-Specific Exon and Promoter Region and AE3 mRNA Expression Patterns in Murine and Human Hearts, 584

Alternative splicing

Human Cardiac Troponin T: Cloning and Expression of New Isoforms in the Normal and Failing Heart, 687

Molecular Basis of Human Cardiac Troponin T Isoforms Expressed in the Developing, Adult, and Failing Heart, 681

Ameroid constrictor

Mechanism of Impaired Myocardial Function During Progressive Coronary Stenosis in Conscious Pigs: Hibernation Versus Stunning? 479

Angiogenesis

Heparin Increases Exercise-Induced Collateral Blood Flow in Rats With Femoral Artery Ligation, 448

Angiotensin II

Angiotensin II and Other Hypertrophic Stimuli Mediated by G Protein-Coupled Receptors Activate Tyrosine Kinase, Mitogen-Activated Protein Kinase, and 90-kD S6 Kinase in Cardiac Myocytes: The Critical Role of Ca^{2+} -Dependent Signaling, 1
Angiotensin II-Induced Growth Responses in Isolated Adult Rat Hearts: Evidence for Load-Independent Induction of Cardiac Protein Synthesis by Angiotensin II, 489

Angiotensin II blockade

Regression of Left Ventricular Hypertrophy Prevents Ischemia-Induced Lethal Arrhythmias: Beneficial Effect of Angiotensin II Blockade, 892

Angiotensin II type 2 receptor

Expression, Genomic Organization, and Transcription of the Mouse Angiotensin II Type 2 Receptor Gene, 693

Angiotensin-converting enzyme inhibitors

Characterization of Bradykinin B_2 Receptors in Adult Myocardium and Neonatal Rat Cardiomyocytes, 773

Anion exchange

Conservation of an $AE3\ Cl^-/HCO_3^-$ Exchanger Cardiac-Specific Exon and Promoter Region and $AE3$ mRNA Expression Patterns in Murine and Human Hearts, 584

Antiarrhythmic drugs

Propafenone Preferentially Blocks the Rapidly Activating Component of Delayed Rectifier K^+ Current in Guinea Pig Ventricular Myocytes: Voltage-Independent and Time-Dependent Block of the Slowly Activating Component, 223

Antiproliferation

Rapamycin-FKBP Inhibits Cell Cycle Regulators of Proliferation in Vascular Smooth Muscle Cells, 412

Antisense oligonucleotides

c-myc in Vasculoproliferative Disease, 176
Effects of Antisense *c-myc* Oligonucleotides on Vascular Smooth Muscle Cell Proliferation and Response to Vessel Wall Injury, 505

Antisense RNA

Inhibition of Vascular Smooth Muscle Cell Growth Through Antisense Transcription of a Rat Insulin-Like Growth Factor I Receptor cDNA, 963

Aortic mechanical properties

Arterial Wall Mechanics in Conscious Dogs: Assessment of Viscous, Inertial, and Elastic Moduli to Characterize Aortic Wall Behavior, 468

Aprikalim

Dilatation of Cerebral Arterioles in Response to Activation of Adenylate Cyclase Is Dependent on Activation of Ca^{2+} -Dependent K^+ Channels, 1057

Arachidonic acid

Arachidonic Acid-Dependent Phosphorylation of Troponin I and Myosin Light Chain 2 in Cardiac Myocytes, 1011

Arginine vasopressin

Arginine Vasopressin-Induced Potentiation of Unitary L-Type Ca^{2+} Channel Current in Guinea Pig Ventricular Myocytes, 592

Arterial compliance

Systolic Flow Augmentation in Hearts Ejecting Into a Model of Stiff Aging Vasculature: Influence on Myocardial Perfusion-Demand Balance, 132

Arterial injury

Effects of Antisense *c-myc* Oligonucleotides on Vascular Smooth Muscle Cell Proliferation and Response to Vessel Wall Injury, 505

Arterial remodeling

Apoptosis (Programmed Cell Death) in Arteries of the Neonatal Lamb, 168

Atherosclerosis

Induction of Monocyte Chemoattractant Protein-1 Synthesis in Human Monocytes During Transendothelial Migration In Vitro, 750

Integrin-Mediated Collagen Matrix Reorganization by Cultured Human Vascular Smooth Muscle Cells, 209

Nitric Oxide Modulates the Expression of Monocyte Chemoattractant Protein 1 in Cultured Human Endothelial Cells, 980
Nitric Oxide Synthesis by Cultured Endothelial Cells Is Modulated by Flow Conditions, 536

Porcine Aortic Smooth Muscle Cells Secrete a Serine Protease for Insulin-like Growth Factor Binding Protein-2, 514

Recombinant Apolipoprotein A-I_{Milano} Dimer Inhibits Carotid Intimal Thickening Induced by Perivascular Manipulation in Rabbits, 405

Restenosis After Experimental Angioplasty: Intimal, Medial, and Adventitial Changes Associated With Constrictive Remodeling, 996

ATP

Coexpression of P_{2Y} and P_{2U} Receptors on Aortic Endothelial Cells: Comparison of Cell Localization and Signaling Pathways, 191

ATP-dependent K^+ channel

Intraischemic Preconditioning: Increased Tolerance to Sustained Low-Flow Ischemia by a Brief Episode of No-Flow Ischemia Without Intermittent Reperfusion, 942

Autoregulation

Adenosine-Recruitable Flow Reserve Is Absent During Myocardial Ischemia in Unanesthetized Dogs Studied in the Basal State, 1079

B**Baby hamster kidney cells**

Stable Expression and Coupling of Cardiac L-Type Ca^{2+} Channels With β_1 -Adrenoceptors, 335

Background current

Effects of Delayed Rectifier Current Blockade by E-4031 on Impulse Generation in Single Sinoatrial Nodal Myocytes of the Rabbit, 607

Blood coagulation

K^+ Channel Blockers Inhibit Tissue Factor Expression by Human Monocytic Cells, 16

Blood flow visualization

Alterations in the Expression of the Genes Encoding Specific Muscarinic Receptor Subtypes in the Hypothalamus of Spontaneously Hypertensive Rats, 142

Intracardiac Blood Flow Patterns Related to the Yolk Sac Circulation of the Chick Embryo, 871

Bradykinin

Characterization of Bradykinin B_2 Receptors in Adult Myocardium and Neonatal Rat Cardiomyocytes, 773

Complement-Mediated Loss of Endothelium-Dependent Relaxation of Porcine Coronary Arteries: Role of the Terminal Membrane Attack Complex, 575

Endothelium-Derived Nitric Oxide Plays a Larger Role in Pulmonary Veins Than in Arteries of Newborn Lambs, 559

Protective Role of Bradykinin in Cardiac Anaphylaxis: Coronary-Vasodilating and Antiarrhythmic Activities Mediated by Autocrine/Paracrine Mechanisms, 434

Simultaneous Measurements of Ca^{2+} and Nitric Oxide in Bradykinin-Stimulated Vascular Endothelial Cells, 922

Brain oxygen utilization

Hormonal Dependence of the Effects of Metabolic Encephalopathy on Cerebral Perfusion and Oxygen Utilization in the Rat, 551

C**C-fos**

Angiotensin II-Induced Growth Responses in Isolated Adult Rat Hearts: Evidence for Load-Independent Induction of Cardiac Protein Synthesis by Angiotensin II, 489

C-jun

Angiotensin II-Induced Growth Responses in Isolated Adult Rat Hearts: Evidence for Load-Independent Induction of Cardiac Protein Synthesis by Angiotensin II, 489

c-myc

c-myc in Vasculoproliferative Disease, 176

c-myc

c-myc in Vasculoproliferative Disease, 176

C5b-9

Complement-Mediated Loss of Endothelium-Dependent Relaxation of Porcine Coronary Arteries: Role of the Terminal Membrane Attack Complex, 575

Ca²⁺

β_2 -Adrenergic Receptor Actions in Neonatal and Adult Rat Ventricular Myocytes, 40

Diminished Ca²⁺ Sensitivity of Skinned Cardiac Muscle Contractility Coincident With Troponin T-Band Shifts in the Diabetic Rat, 600

Postischemic Changes in Cardiac Sarcoplasmic Reticulum Ca²⁺ Channels: A Possible Mechanism of Ischemic Preconditioning, 1049

Rate of Tension Development in Cardiac Muscle Varies With Level of Activator Calcium, 154

Ca²⁺ channel

Functional Consequences of Sulfhydryl Modification in the Pore-Forming Subunits of Cardiovascular Ca²⁺ and Na⁺ Channels, 325

Inhibition and Rapid Recovery of Ca²⁺ Current During Ca²⁺ Release From Sarcoplasmic Reticulum in Guinea Pig Ventricular Myocytes, 102

Stable Expression and Coupling of Cardiac L-Type Ca²⁺ Channels With β_1 -Adrenoceptors, 335

Ca²⁺ current

Effects of Action Potential Duration on Excitation-Contraction Coupling in Rat Ventricular Myocytes: Action Potential Voltage-Clamp Measurements, 790

Ca²⁺ release

Inhibition and Rapid Recovery of Ca²⁺ Current During Ca²⁺ Release From Sarcoplasmic Reticulum in Guinea Pig Ventricular Myocytes, 102

Ca²⁺ sensitivity

Calcium Sensitivity of Isometric Tension Is Increased in Canine Experimental Heart Failure, 781

Ca²⁺ sensitizer

MCI-154 Increases Ca²⁺ Sensitivity of Reconstituted Thin Filament: A Study Using a Novel In Vitro Motility Assay Technique, 626

Calcitonin gene-related peptide

Calcitonin Gene-Related Peptide Mediates Acetylcholine-Induced Endothelium-Independent Vasodilation in Mesenteric Resistance Blood Vessels of the Rat, 935

Essential Role for Nitric Oxide in Neurogenic Inflammation in Rat Cutaneous Microcirculation: Evidence for an Endothelium-Independent Mechanism, 441

Calcium-activated neutral protease

Role of Calcium-Activated Neutral Protease (Calpain) in Cell Death in Cultured Neonatal Rat Cardiomyocytes During Metabolic Inhibition, 1071

Calcium transient

Myosin Light Chain-Actin Interaction Regulates Cardiac Contractility, 720

Caldesmon

Activation of Mitogen-Activated Protein Kinase in Porcine Carotid Arteries, 183

Phosphotyrosine-Dependent Targeting of Mitogen-Activated Protein Kinase in Differentiated Contractile Vascular Cells, 1101

cAMP

Negative Chronotropic Effect of Endothelin 1 Mediated Through ET_A Receptors in Guinea Pig Atria, 284

Capillary permeability

Effects of Second Messengers on the Permeability and Morphology of Eel Rete Capillaries, 566

Capillary recruitment

Patterns of Capillary Plasma Perfusion in Brains of Conscious Rats During Normocapnia and Hypercapnia, 120

Capillary ultrastructure

Effects of Second Messengers on the Permeability and Morphology of Eel Rete Capillaries, 566

Cardiac anaphylaxis

Protective Role of Bradykinin in Cardiac Anaphylaxis: Coronary-Vasodilating and Antiarrhythmic Activities Mediated by Autocrine/Paracrine Mechanisms, 434

Cardiac development

Patterns of Expression of Sarcoplasmic Reticulum Ca²⁺-ATPase and Phospholamban mRNAs During Rat Heart Development, 616

Cardiac electrophysiology

Unitary Chloride Channels Activated by Protein Kinase C in Guinea Pig Ventricular Myocytes, 317

Cardiac muscle

Endothelin-Mediated Positive Inotropic Effect Induced by Reactive Oxygen Species in Isolated Cardiac Muscle, 878

Myosin Heavy Chain Expression in Contracting Myocytes Isolated During Embryonic Stem Cell Cardiogenesis, 710

Partial Inhibition of Ca²⁺ Current by Methoxyverapamil (D600) Reveals Spatial Nonuniformities in [Ca²⁺]_i During Excitation-Contraction Coupling in Cardiac Myocytes, 236

Rate of Tension Development in Cardiac Muscle Varies With Level of Activator Calcium, 154

Cardiac myocytes

β_2 -Adrenergic Receptor Actions in Neonatal and Adult Rat Ventricular Myocytes, 40

Inhibition of the Spontaneous Rate of Contraction of Neonatal Cardiac Myocytes by Protein Kinase C Isozymes: A Putative Role for the ϵ Isozyme, 654

Cardiac skinned muscle

Cardiac Troponin I Phosphorylation Increases the Rate of Cardiac Muscle Relaxation, 1028

Cardiac transplantation

Decreased Adenylate Cyclase Activity and Expression of G_o in Human Myocardium After Orthotopic Cardiac Transplantation, 852

Cardiac troponin I

Cardiac Troponin I Phosphorylation Increases the Rate of Cardiac Muscle Relaxation, 1028

Cardiac valves

Na⁺-Ca²⁺ Exchange in Intact Endothelium of Rabbit Cardiac Valve, 396

Cardiomyopathy

Antibody-Mediated Imbalance of Myocardial Energy Metabolism: A Causal Factor of Cardiac Failure? 64

Localization of Porcine Cardiac Myosin Epitopes That Induce Experimental Autoimmune Myocarditis, 726

Carotid sinus

Modulation of Baroreceptor Activity by Nitric Oxide and S-Nitrosocysteine, 426

Cell death

Role of Calcium-Activated Neutral Protease (Calpain) in Cell Death in Cultured Neonatal Rat Cardiomyocytes During Metabolic Inhibition, 1071

Cell hypoxia

Regulation of Vascular Endothelial Growth Factor in Cardiac Myocytes, 758

Cell injury

Contraction-Induced Cell Wounding and Release of Fibroblast Growth Factor in Heart, 927

Cell proliferation

Differentiation of Vascular Smooth Muscle Cells and the Regulation of Protein Kinase C- α , 21

Cell suicide

Apoptosis (Programmed Cell Death) in Arteries of the Neonatal Lamb, 168

Cells

Na⁺-H⁺ Exchanger Isoform 1 Phosphorylation in Normal Wistar-Kyoto and Spontaneously Hypertensive Rats, 825

Cellular proliferation

Inhibition of Vascular Smooth Muscle Cell Growth Through Antisense Transcription of a Rat Insulin-Like Growth Factor I Receptor cDNA, 963

Central command

Central Command Increases Muscle Sympathetic Nerve Activity During Intense Intermittent Isometric Exercise in Humans, 127

Cerebral arteries

Role of Extracellular and Intracellular Acidosis for Hypercapnia-Induced Inhibition of Tension of Isolated Rat Cerebral Arteries, 269

Cerebral arterioles

Dilatation of Cerebral Arterioles in Response to Activation of Adenylate Cyclase Is Dependent on Activation of Ca^{2+} -Dependent K^+ Channels, 1057

Cerebral blood flow

Hormonal Dependence of the Effects of Metabolic Encephalopathy on Cerebral Perfusion and Oxygen Utilization in the Rat, 551

Patterns of Capillary Plasma Perfusion in Brains of Conscious Rats During Normocapnia and Hypercapnia, 120

CFTR

Unitary Chloride Channels Activated by Protein Kinase C in Guinea Pig Ventricular Myocytes, 317

cGMP

Endothelium-Derived Nitric Oxide Plays a Larger Role in Pulmonary Veins Than in Arteries of Newborn Lambs, 559

cGMP-dependent protein kinase

cGMP and Nitric Oxide Modulate Thrombin-Induced Endothelial Permeability: Regulation via Different Pathways in Human Aortic and Umbilical Vein Endothelial Cells, 199

Chaos

Biphasic Restitution of Action Potential Duration and Complex Dynamics in Ventricular Myocardium, 915

Choline

Coexpression of $\text{P}_{2\text{Y}}$ and $\text{P}_{2\text{U}}$ Receptors on Aortic Endothelial Cells: Comparison of Cell Localization and Signaling Pathways, 191

Chronic constriction

Restenosis After Experimental Angioplasty: Intimal, Medial, and Adventitial Changes Associated With Constrictive Remodeling, 996

 Cl^- channel

Unitary Chloride Channels Activated by Protein Kinase C in Guinea Pig Ventricular Myocytes, 317

 Cl^- current

Contribution of Na^+ - Ca^{2+} Exchange to Stimulation of Transient Inward Current by Isoproterenol in Rabbit Cardiac Purkinje Fibers, 664

Forskolin Stimulates Swelling-Induced Chloride Current, Not Cardiac Cystic Fibrosis Transmembrane-Conductance Regulator Current, in Human Cardiac Myocytes, 1063

Class III antiarrhythmic agent E-4031

Effects of Delayed Rectifier Current Blockade by E-4031 on Impulse Generation in Single Sinoatrial Nodal Myocytes of the Rabbit, 607

Cobalt

Regulation of Vascular Endothelial Growth Factor in Cardiac Myocytes, 758

Coenzyme A glutathione disulfide

Coenzyme A Glutathione Disulfide: A Potent Vasoconstrictor Derived From the Adrenal Gland, 675

Collagen

Integrin-Mediated Collagen Matrix Reorganization by Cultured Human Vascular Smooth Muscle Cells, 209

Nitric Oxide-Generating Compounds Inhibit Total Protein and Collagen Synthesis in Cultured Vascular Smooth Muscle Cells, 305

Collagen recruitment function

Arterial Wall Mechanics in Conscious Dogs: Assessment of Viscous, Inertial, and Elastic Moduli to Characterize Aortic Wall Behavior, 468

Confocal microscopy

Dye Tracers Define Differential Endothelial and Smooth Muscle Coupling Patterns Within the Arteriolar Wall, 498

Partial Inhibition of Ca^{2+} Current by Methoxyverapamil (D600) Reveals Spatial Nonuniformities in $[\text{Ca}^{2+}]_i$ During Excitation-Contraction Coupling in Cardiac Myocytes, 236

Congenital heart disease

Continuous Nitric Oxide Inhalation Reduces Pulmonary Arterial Structural Changes, Right Ventricular Hypertrophy, and Growth Retardation in the Hypoxic Newborn Rat, 215

Connexin43

Spatial Distribution of Connexin43, the Major Cardiac Gap Junction Protein, Visualizes the Cellular Network for Impulse Propagation From Sinoatrial Node to Atrium, 802

Constitutive equation

Arterial Wall Mechanics in Conscious Dogs: Assessment of Viscous, Inertial, and Elastic Moduli to Characterize Aortic Wall Behavior, 468

Contraction

Activation of Mitogen-Activated Protein Kinase in Porcine Carotid Arteries, 183

β_2 -Adrenergic Receptor Actions in Neonatal and Adult Rat Ventricular Myocytes, 40

Inhibition of the Spontaneous Rate of Contraction of Neonatal Cardiac Myocytes by Protein Kinase C Isozymes: A Putative Role for the ϵ Isozyme, 654

Myosin Heavy Chain Expression in Contracting Myocytes Isolated During Embryonic Stem Cell Cardiogenesis, 710

Rate of Tension Development in Cardiac Muscle Varies With Level of Activator Calcium, 154

Coronary disease

Regulation of Vascular Endothelial Growth Factor in Cardiac Myocytes, 758

Coronary flow

Systolic Flow Augmentation in Hearts Ejecting Into a Model of Stiff Aging Vasculature: Influence on Myocardial Perfusion-Demand Balance, 132

Coronary reperfusion

Effect of Adenosine on Myocardial 'Stunning' in the Dog, 82

Cross-bridge

Protein Kinase A Does Not Alter Economy of Force Maintenance in Skinned Rat Cardiac Trabeculae, 734

Rate of Tension Development in Cardiac Muscle Varies With Level of Activator Calcium, 154

Cross-bridge kinetics

Rate of Tension Development in Cardiac Muscle Varies With Level of Activator Calcium, 154

Cultured heart cells

Adenosine $\text{A}_{2\text{a}}$ and $\text{A}_{2\text{b}}$ Receptors in Cultured Fetal Chick Heart Cells: High- and Low-Affinity Coupling to Stimulation of Myocyte Contractility and cAMP Accumulation, 242

Cyclooxygenase

Endothelium-Dependent Contractions Are Associated With Both Augmented Expression of Prostaglandin H Synthase-1 and Hypersensitivity to Prostaglandin H_2 in the SHR Aorta, 1003

Cysteine

Functional Consequences of Sulfhydryl Modification in the Pore-Forming Subunits of Cardiovascular Ca^{2+} and Na^+ Channels, 325

Cystic fibrosis transmembrane-conductance regulator

Forskolin Stimulates Swelling-Induced Chloride Current, Not Cardiac Cystic Fibrosis Transmembrane-Conductance Regulator Current, in Human Cardiac Myocytes, 1063

Cytoplasmic Ca^{2+}

cGMP and Nitric Oxide Modulate Thrombin-Induced Endothelial Permeability: Regulation via Different Pathways in Human Aortic and Umbilical Vein Endothelial Cells, 199

Na^+ - Ca^{2+} Exchange in Intact Endothelium of Rabbit Cardiac Valve, 396

Cytoplasmic Ca^{2+} concentration

Simultaneous Measurements of Ca^{2+} and Nitric Oxide in Bradykinin-Stimulated Vascular Endothelial Cells, 922

D**Delayed rectifier current**

Effects of Delayed Rectifier Current Blockade by E-4031 on Impulse Generation in Single Sinoatrial Nodal Myocytes of the Rabbit, 607

Delayed rectifier K⁺ current

Cardiac Electrophysiological Actions of the Histamine H₁-Receptor Antagonists Astemizole and Terfenadine Compared With Chlorpheniramine and Pyrilamine, 110

Characteristics of the Delayed Rectifier Current (I_{Kr} and I_{Ks}) in Canine Ventricular Epicardial, Midmyocardial, and Endocardial Myocytes: A Weaker I_{Ks} Contributes to the Longer Action Potential of the M Cell, 351

Development

β₂-Adrenergic Receptor Actions in Neonatal and Adult Rat Ventricular Myocytes, 40

Myosin Heavy Chain Expression in Contracting Myocytes Isolated During Embryonic Stem Cell Cardiogenesis, 710

Developmental regulation

Conservation of an AE3 Cl⁻/HCO₃⁻ Exchanger Cardiac-Specific Exon and Promoter Region and AE3 mRNA Expression Patterns in Murine and Human Hearts, 584

Diabetes

Diminished Ca²⁺ Sensitivity of Skinned Cardiac Muscle Contractility Coincident With Troponin T-Band Shifts in the Diabetic Rat, 600

Diastolic relaxation

Relationship Between Intracellular Calcium and Contractile Force in Stunned Myocardium: Direct Evidence for Decreased Myofilament Ca²⁺ Responsiveness and Altered Diastolic Function in Intact Ventricular Muscle, 1036

Dihydrorhodamine 123

Microvascular Responses to Inhibition of Nitric Oxide Production: Role of Active Oxidants, 30

Dilated cardiomyopathy

Calcium Sensitivity of Isometric Tension Is Increased in Canine Experimental Heart Failure, 781

Discontinuous propagation

The Stochastic Nature of Cardiac Propagation at a Microscopic Level: Electrical Description of Myocardial Architecture and Its Application to Conduction, 366

Dispersion of action potential durations

Regression of Left Ventricular Hypertrophy Prevents Ischemia-Induced Lethal Arrhythmias: Beneficial Effect of Angiotensin II Blockade, 892

DNA virus

Expression of Vascular Endothelial Growth Factor From a Defective Herpes Simplex Virus Type 1 Amplicon Vector Induces Angiogenesis in Mice, 161

Doxorubicin

Effects of Doxorubicin on Excitation-Contraction Coupling in Guinea Pig Ventricular Myocardium, 645

E**Early afterdepolarization**

Cardiac Electrophysiological Actions of the Histamine H₁-Receptor Antagonists Astemizole and Terfenadine Compared With Chlorpheniramine and Pyrilamine, 110

Echocardiography

Echocardiographic Assessment of Left Ventricular Mass and Systolic Function in Mice, 907

Electrical conduction

Expression of Multiple Connexins in Cultured Neonatal Rat Ventricular Myocytes, 381

Electrophysiology

Characteristics of the Delayed Rectifier Current (I_{Kr} and I_{Ks}) in Canine Ventricular Epicardial, Midmyocardial, and Endocardial Myocytes: A Weaker I_{Ks} Contributes to the Longer Action Potential of the M Cell, 351

Embryonal carcinoma cells

A Retinoic Acid-Induced Clonal Cell Line Derived From Multipotential P19 Embryonal Carcinoma Cells Expresses Smooth Muscle Characteristics, 742

Endocardial endothelium

Endothelin-Mediated Positive Inotropic Effect Induced by Reactive Oxygen Species in Isolated Cardiac Muscle, 878

Endothelial cells

Calcium Signaling in Endothelial Cells Involves Activation of Tyrosine Kinases and Leads to Activation of Mitogen-Activated Protein Kinases, 522

Coexpression of P_{2Y} and P_{2U} Receptors on Aortic Endothelial Cells: Comparison of Cell Localization and Signaling Pathways, 191

Nitric Oxide Modulates the Expression of Monocyte Chemoattractant Protein 1 in Cultured Human Endothelial Cells, 980

Thrombin Induces the Prepro Endothelin-1 Gene in Endothelial Cells by a Protein Tyrosine Kinase-Linked Mechanism, 987

Endothelial dysfunction

Endothelin-Mediated Positive Inotropic Effect Induced by Reactive Oxygen Species in Isolated Cardiac Muscle, 878

Endothelin

Endothelin-Mediated Positive Inotropic Effect Induced by Reactive Oxygen Species in Isolated Cardiac Muscle, 878

Nitric Oxide Synthesis by Cultured Endothelial Cells Is Modulated by Flow Conditions, 536

Thrombin Induces the Prepro Endothelin-1 Gene in Endothelial Cells by a Protein Tyrosine Kinase-Linked Mechanism, 987

Endothelin-1

Arachidonic Acid-Dependent Phosphorylation of Troponin I and Myosin Light Chain 2 in Cardiac Myocytes, 1011

Increased In Vivo Expression and Production of Endothelin-1 by Porcine Cardiomyocytes Subjected to Ischemia, 767

Endothelin A receptor

Negative Chronotropic Effect of Endothelin 1 Mediated Through ET_A Receptors in Guinea Pig Atria, 284

Endothelium

Endothelium-Derived Nitric Oxide Plays a Larger Role in Pulmonary Veins Than in Arteries of Newborn Lambs, 559

Expression of Vascular Endothelial Growth Factor From a Defective Herpes Simplex Virus Type 1 Amplicon Vector Induces Angiogenesis in Mice, 161

Induction of Monocyte Chemoattractant Protein-1 Synthesis in Human Monocytes During Transendothelial Migration In Vitro, 750

Na⁺-Ca²⁺ Exchange in Intact Endothelium of Rabbit Cardiac Valve, 396

Endothelium-derived relaxing factor

Modulation of Baroreceptor Activity by Nitric Oxide and S-Nitrosocysteine, 426

Nitric Oxide Synthesis by Cultured Endothelial Cells Is Modulated by Flow Conditions, 536

Simultaneous Measurements of Ca²⁺ and Nitric Oxide in Bradykinin-Stimulated Vascular Endothelial Cells, 922

Endothelium-independent vasodilation

Calcitonin Gene-Related Peptide Mediates Acetylcholine-Induced Endothelium-Independent Vasodilation in Mesenteric Resistance Blood Vessels of the Rat, 935

Endotoxemia

Inhibition of Nitric Oxide Synthesis Causes Myocardial Ischemia in Endotoxemic Rats, 418

Epitope

Localization of Porcine Cardiac Myosin Epitopes That Induce Experimental Autoimmune Myocarditis, 726

Estrogen

Hormonal Dependence of the Effects of Metabolic Encephalopathy on Cerebral Perfusion and Oxygen Utilization in the Rat, 551

Excitation-contraction coupling

Effects of Action Potential Duration on Excitation-Contraction Coupling in Rat Ventricular Myocytes: Action Potential Voltage-Clamp Measurements, 790

Partial Inhibition of Ca²⁺ Current by Methoxyverapamil (D600) Reveals Spatial Nonuniformities in [Ca²⁺]_i During Excitation-Contraction Coupling in Cardiac Myocytes, 236

F

Familial hypertrophic cardiomyopathy

Molecular Basis of Human Cardiac Troponin T Isoforms Expressed in the Developing, Adult, and Failing Heart, 681

Fetus

Molecular Basis of Human Cardiac Troponin T Isoforms Expressed in the Developing, Adult, and Failing Heart, 681

Fibroblast growth factor

Contraction-Induced Cell Wounding and Release of Fibroblast Growth Factor in Heart, 927

FK506

Rapamycin-FKBP Inhibits Cell Cycle Regulators of Proliferation in Vascular Smooth Muscle Cells, 412

Flow reserve

Adenosine-Recruitable Flow Reserve Is Absent During Myocardial Ischemia in Unanesthetized Dogs Studied in the Basal State, 1079

Fluorescent dyes

Dye Tracers Define Differential Endothelial and Smooth Muscle Coupling Patterns Within the Arteriolar Wall, 498

Forskolin

Dilatation of Cerebral Arterioles in Response to Activation of Adenylate Cyclase Is Dependent on Activation of Ca^{2+} -Dependent K^+ Channels, 1057

Fractal analysis

Local Continuity of Myocardial Blood Flow Studied by Monochromatic Synchrotron Radiation-Excited X-ray Fluorescence Spectrometry, 1088

Free intracellular Ca^{2+}

Nongenomic Effects of Aldosterone on Intracellular Ca^{2+} in Vascular Smooth Muscle Cells, 973

Free radicals

Endothelin-Mediated Positive Inotropic Effect Induced by Reactive Oxygen Species in Isolated Cardiac Muscle, 878

Fura 2

Myosin Light Chain-Actin Interaction Regulates Cardiac Contractility, 720

Simultaneous Measurements of Ca^{2+} and Nitric Oxide in Bradykinin-Stimulated Vascular Endothelial Cells, 922

G

G protein

Cardiac Muscarinic Potassium Channel Activity Is Attenuated by Inhibitors of $G_{\beta\gamma}$, 832

Impaired Function of Inhibitory G Proteins During Acute Myocardial Ischemia of Canine Hearts and Its Reversal During Reperfusion and a Second Period of Ischemia: Possible Implications for the Protective Mechanism of Ischemic Preconditioning, 861

Gap junction

Dye Tracers Define Differential Endothelial and Smooth Muscle Coupling Patterns Within the Arteriolar Wall, 498

Expression of Multiple Connexins in Cultured Neonatal Rat Ventricular Myocytes, 381

Spatial Distribution of Connexin43, the Major Cardiac Gap Junction Protein, Visualizes the Cellular Network for Impulse Propagation From Sinoatrial Node to Atrium, 802

Gap junction delay

The Stochastic Nature of Cardiac Propagation at a Microscopic Level: Electrical Description of Myocardial Architecture and Its Application to Conduction, 366

Gene expression

Expression, Genomic Organization, and Transcription of the Mouse Angiotensin II Type 2 Receptor Gene, 693

Nitric Oxide Synthesis by Cultured Endothelial Cells Is Modulated by Flow Conditions, 536

Gene therapy

Expression of Vascular Endothelial Growth Factor From a Defective Herpes Simplex Virus Type 1 Amplicon Vector Induces Angiogenesis in Mice, 161

In Vivo Adenovirus-Mediated Gene Transfer Via the Pulmonary Artery of Rats, 701

Gene transfer

In Vivo Adenovirus-Mediated Gene Transfer Via the Pulmonary Artery of Rats, 701

Genistein

Calcium Signaling in Endothelial Cells Involves Activation of Tyrosine Kinases and Leads to Activation of Mitogen-Activated Protein Kinases, 522

Genomic DNA

Expression, Genomic Organization, and Transcription of the Mouse Angiotensin II Type 2 Receptor Gene, 693

Gracilis muscle

Exercise Training Augments Flow-Dependent Dilatation in Rat Skeletal Muscle Arterioles: Role of Endothelial Nitric Oxide and Prostaglandins, 544

Guanine nucleotide regulatory proteins

Decreased Adenylate Cyclase Activity and Expression of $G_{\alpha s}$ in Human Myocardium After Orthotopic Cardiac Transplantation, 852

Guinea pig atria

Negative Chronotropic Effect of Endothelin 1 Mediated Through ET_A Receptors in Guinea Pig Atria, 284

Guinea pig ventricle

Unitary Chloride Channels Activated by Protein Kinase C in Guinea Pig Ventricular Myocytes, 317

H

Harvest vasodilation

Enhanced Preservation of Orthotopically Transplanted Rat Lungs by Nitroglycerin but Not Hydralazine: Requirement for Graft Vascular Homeostasis Beyond Harvest Vasodilation, 900

Heart

Inhibition and Rapid Recovery of Ca^{2+} Current During Ca^{2+} Release From Sarcoplasmic Reticulum in Guinea Pig Ventricular Myocytes, 102

Inhibition of the Spontaneous Rate of Contraction of Neonatal Cardiac Myocytes by Protein Kinase C Isozymes: A Putative Role for the ϵ Isozyme, 654

Partial Inhibition of Ca^{2+} Current by Methoxyverapamil (D600) Reveals Spatial Nonuniformities in $[Ca^{2+}]_i$ During Excitation-Contraction Coupling in Cardiac Myocytes, 236

Heart development

Intracardiac Blood Flow Patterns Related to the Yolk Sac Circulation of the Chick Embryo, 871

Heart failure

Diminished Ca^{2+} Sensitivity of Skinned Cardiac Muscle Contractility Coincident With Troponin T-Band Shifts in the Diabetic Rat, 600

Heart hypertrophy

Contraction-Induced Cell Wounding and Release of Fibroblast Growth Factor in Heart, 927

Hemodynamics

Intracardiac Blood Flow Patterns Related to the Yolk Sac Circulation of the Chick Embryo, 871

Heterogeneity

Characteristics of the Delayed Rectifier Current (I_{Kr} and I_{Ks}) in Canine Ventricular Epicardial, Midmyocardial, and Endocardial Myocytes: A Weaker I_{Ks} Contributes to the Longer Action Potential of the M Cell, 351

High osmolality

Long-term High Osmolality Activates Na^+ - H^+ Exchange and Protein Kinase C in Aortic Smooth Muscle Cells, 530

HOE 140

Protective Role of Bradykinin in Cardiac Anaphylaxis: Coronary-Vasodilating and Antiarrhythmic Activities Mediated by Autocrine/Paracrine Mechanisms, 434

Homeobox genes

A Retinoic Acid-Induced Clonal Cell Line Derived From Multipotential P19 Embryonal Carcinoma Cells Expresses Smooth Muscle Characteristics, 742

Human atrium

Cloning and Functional Expression of an Inwardly Rectifying K^+ Channel From Human Atrium, 343

Human cardiac myocytes

Cloning and Functional Expression of an Inwardly Rectifying K⁺ Channel From Human Atrium, 343

Human endothelial cells

cGMP and Nitric Oxide Modulate Thrombin-Induced Endothelial Permeability: Regulation via Different Pathways in Human Aortic and Umbilical Vein Endothelial Cells, 199

Human heart

Human Cardiac Troponin T: Cloning and Expression of New Isoforms in the Normal and Failing Heart, 687

Myosin Light Chain-Actin Interaction Regulates Cardiac Contractility, 720

Human umbilical vein endothelial cells

Effects of Hypoxanthine-Xanthine Oxidase on Ca²⁺ Stores and Protein Synthesis in Human Endothelial Cells, 388

Hydralazine

Enhanced Preservation of Orthotopically Transplanted Rat Lungs by Nitroglycerin but Not Hydralazine: Requirement for Graft Vascular Homeostasis Beyond Harvest Vasodilation, 900

Hydroxyecosatetraenoic acid

Role of Lipoxygenase Metabolites in Ischemic Preconditioning, 457

4-Hydroxynonenal

Electrophysiological Effects of 4-Hydroxynonenal, an Aldehydic Product of Lipid Peroxidation, on Isolated Rat Ventricular Myocytes, 293

Hypercapnia

Role of Extracellular and Intracellular Acidosis for Hypercapnia-Induced Inhibition of Tension of Isolated Rat Cerebral Arteries, 269

Hypertension

Na⁺-H⁺ Exchanger Isoform 1 Phosphorylation in Normal Wistar-Kyoto and Spontaneously Hypertensive Rats, 825

Salt-Sensitive Hypertension in Transgenic Mice Overexpressing Na⁺-Proton Exchanger, 148

Hypertensive hypertrophy

Quantification of Myotrophin From Spontaneously Hypertensive and Normal Rat Hearts, 1020

Hyponatremia

Hormonal Dependence of the Effects of Metabolic Encephalopathy on Cerebral Perfusion and Oxygen Utilization in the Rat, 551

Hypotatremic encephalopathy

Hormonal Dependence of the Effects of Metabolic Encephalopathy on Cerebral Perfusion and Oxygen Utilization in the Rat, 551

Hypothalamus

Alterations in the Expression of the Genes Encoding Specific Muscarinic Receptor Subtypes in the Hypothalamus of Spontaneously Hypertensive Rats, 142

Hypothyroidism

Diminished Ca²⁺ Sensitivity of Skinned Cardiac Muscle Contractility Coincident With Troponin T-Band Shifts in the Diabetic Rat, 600

Hypoxia

ATP-Sensitive K⁺ Channels Mediate α_{2D} -Adrenergic Receptor Contraction of Arteriolar Smooth Muscle and Reversal of Contraction by Hypoxia, 53

I**Iberiotoxin**

Dilatation of Cerebral Arterioles in Response to Activation of Adenylate Cyclase Is Dependent on Activation of Ca²⁺-Dependent K⁺ Channels, 1057

Immunofluorescence

Spatial Distribution of Connexin43, the Major Cardiac Gap Junction Protein, Visualizes the Cellular Network for Impulse Propagation From Sinoatrial Node to Atrium, 802

Immunohistochemistry

Increased In Vivo Expression and Production of Endothelin-1 by Porcine Cardiomyocytes Subjected to Ischemia, 767

Immunophilin

Rapamycin-FKBP Inhibits Cell Cycle Regulators of Proliferation in Vascular Smooth Muscle Cells, 412

Impulse conduction

Spatial Distribution of Connexin43, the Major Cardiac Gap Junction Protein, Visualizes the Cellular Network for Impulse Propagation From Sinoatrial Node to Atrium, 802

Impulse generation

Effects of Delayed Rectifier Current Blockade by E-4031 on Impulse Generation in Single Sinoatrial Nodal Myocytes of the Rabbit, 607

In situ hybridization

A Subpopulation of Smooth Muscle Cells in Injured Rat Arteries Expresses Platelet-Derived Growth Factor-B Chain mRNA, 951

Increased In Vivo Expression and Production of Endothelin-1 by Porcine Cardiomyocytes Subjected to Ischemia, 767

In vitro motility assay

MCI-154 Increases Ca²⁺ Sensitivity of Reconstituted Thin Filament: A Study Using a Novel In Vitro Motility Assay Technique, 626

Infarct size

Intraischemic Preconditioning: Increased Tolerance to Sustained Low-Flow Ischemia by a Brief Episode of No-Flow Ischemia Without Interim Reperfusion, 942

Inositol 1,4-bisphosphate

Inositol Phosphate Release and Metabolism in Rat Left Atria, 252

Inositol 1,4,5-trisphosphate

Inositol Phosphate Release and Metabolism During Myocardial Ischemia and Reperfusion in Rat Heart, 261

Inositol Phosphate Release and Metabolism in Rat Left Atria, 252

Inositol phosphates

Coexpression of P_{2Y} and P_{2U} Receptors on Aortic Endothelial Cells: Comparison of Cell Localization and Signaling Pathways, 191

Insulin-like growth factor

Inhibition of Vascular Smooth Muscle Cell Growth Through Antisense Transcription of a Rat Insulin-Like Growth Factor I Receptor cDNA, 963

Insulin-like growth factor I

Porcine Aortic Smooth Muscle Cells Secrete a Serine Protease for Insulin-like Growth Factor Binding Protein-2, 514

Integrins

Integrin-Mediated Collagen Matrix Reorganization by Cultured Human Vascular Smooth Muscle Cells, 209

Intercellular communication

Dye Tracers Define Differential Endothelial and Smooth Muscle Coupling Patterns Within the Arteriolar Wall, 498

Expression of Multiple Connexins in Cultured Neonatal Rat Ventricular Myocytes, 381

Intermittent claudication

Heparin Increases Exercise-Induced Collateral Blood Flow in Rats With Femoral Artery Ligation, 448

Intima

A Subpopulation of Smooth Muscle Cells in Injured Rat Arteries Expresses Platelet-Derived Growth Factor-B Chain mRNA, 951

Intracellular Ca²⁺

Calcium Signaling in Endothelial Cells Involves Activation of Tyrosine Kinases and Leads to Activation of Mitogen-Activated Protein Kinases, 522

Characterization of Bradykinin B₂ Receptors in Adult Myocardium and Neonatal Rat Cardiomyocytes, 773

Effects of Action Potential Duration on Excitation-Contraction Coupling in Rat Ventricular Myocytes: Action Potential Voltage-Clamp Measurements, 790

Effects of Hypoxanthine-Xanthine Oxidase on Ca²⁺ Stores and Protein Synthesis in Human Endothelial Cells, 388

Partial Inhibition of Ca²⁺ Current by Methoxyverapamil (D600) Reveals Spatial Nonuniformities in [Ca²⁺]_i During Excitation-Contraction Coupling in Cardiac Myocytes, 236

Relationship Between Intracellular Calcium and Contractile Force in Stunned Myocardium: Direct Evidence for Decreased Myofilament Ca^{2+} Responsiveness and Altered Diastolic Function in Intact Ventricular Muscle, 1036

Intracellular conduction

The Stochastic Nature of Cardiac Propagation at a Microscopic Level: Electrical Description of Myocardial Architecture and Its Application to Conduction, 366

Intracellular Na^+

Pathways of Rb^+ Influx and Their Relation to Intracellular $[\text{Na}^+]$ in the Perfused Rat Heart: A ^{87}Rb and ^{23}Na NMR Study, 839

Inward rectifier

Cloning and Functional Expression of an Inwardly Rectifying K^+ Channel From Human Atrium, 343

Ion channel

Expression of Multiple Connexins in Cultured Neonatal Rat Ventricular Myocytes, 381

Inhibition of Vascular Smooth Muscle Cell K^+ Currents by Tyrosine Kinase Inhibitors Genistein and ST 638, 310

K^+ Channel Blockers Inhibit Tissue Factor Expression by Human Monocytic Cells, 16

IP_3

Characterization of Bradykinin B_2 Receptors in Adult Myocardium and Neonatal Rat Cardiomyocytes, 773

Ischemia

Mechanism of Impaired Myocardial Function During Progressive Coronary Stenosis in Conscious Pigs: Hibernation Versus Stunning? 479

Postischemic Changes in Cardiac Sarcoplasmic Reticulum Ca^{2+} Channels: A Possible Mechanism of Ischemic Preconditioning, 1049

Ischemia-induced lethal arrhythmias

Regression of Left Ventricular Hypertrophy Prevents Ischemia-Induced Lethal Arrhythmias: Beneficial Effect of Angiotensin II Blockade, 892

Ischemia/reperfusion

Preconditioning of Isolated Rat Heart Is Mediated by Protein Kinase C, 73

Ischemic preconditioning

Impaired Function of Inhibitory G Proteins During Acute Myocardial Ischemia of Canine Hearts and Its Reversal During Reperfusion and a Second Period of Ischemia: Possible Implications for the Protective Mechanism of Ischemic Preconditioning, 861

Intraischemic Preconditioning: Increased Tolerance to Sustained Low-Flow Ischemia by a Brief Episode of No-Flow Ischemia Without Intermittent Reperfusion, 942

Preconditioning of Isolated Rat Heart Is Mediated by Protein Kinase C, 73

Role of Lipoxigenase Metabolites in Ischemic Preconditioning, 457

Isolated heart

Preconditioning of Isolated Rat Heart Is Mediated by Protein Kinase C, 73

Isolated microvessels

Exercise Training Augments Flow-Dependent Dilation in Rat Skeletal Muscle Arterioles: Role of Endothelial Nitric Oxide and Prostaglandins, 544

Isometric exercise

Central Command Increases Muscle Sympathetic Nerve Activity During Intense Intermittent Isometric Exercise in Humans, 127

Isometric tension

Calcium Sensitivity of Isometric Tension Is Increased in Canine Experimental Heart Failure, 781

Isoproterenol

Acetylcholine Elicits a Rebound Stimulation of Ca^{2+} Current Mediated by Pertussis Toxin-Sensitive G Protein and cAMP-Dependent Protein Kinase A in Atrial Myocytes, 634

K

K^+ channel

Cardiac Muscarinic Potassium Channel Activity Is Attenuated by Inhibitors of $\text{G}_{\beta\gamma}$, 832

Cloning and Functional Expression of an Inwardly Rectifying K^+ Channel From Human Atrium, 343

Inhibition of Vascular Smooth Muscle Cell K^+ Currents by Tyrosine Kinase Inhibitors Genistein and ST 638, 310

K^+ current

Propafenone Preferentially Blocks the Rapidly Activating Component of Delayed Rectifier K^+ Current in Guinea Pig Ventricular Myocytes: Voltage-Independent and Time-Dependent Block of the Slowly Activating Component, 223

Kinase II

Characterization of Bradykinin B_2 Receptors in Adult Myocardium and Neonatal Rat Cardiomyocytes, 773

L

L-type Ca^{2+} channel

Arginine Vasopressin-Induced Potentiation of Unitary L-Type Ca^{2+} Channel Current in Guinea Pig Ventricular Myocytes, 592

Laminar flow

Intracardiac Blood Flow Patterns Related to the Yolk Sac Circulation of the Chick Embryo, 871

Left anterior descending coronary artery

Role of Adenosine in Postischemic Dysfunction of Coronary Innervation, 95

Left atria

Inositol Phosphate Release and Metabolism in Rat Left Atria, 252

Left circumflex coronary artery

Role of Adenosine in Postischemic Dysfunction of Coronary Innervation, 95

Left ventricular function

Echocardiographic Assessment of Left Ventricular Mass and Systolic Function in Mice, 907

Left ventricular mass

Echocardiographic Assessment of Left Ventricular Mass and Systolic Function in Mice, 907

Leukocyte-endothelial cell adhesion

Microvascular Responses to Inhibition of Nitric Oxide Production: Role of Active Oxidants, 30

Lipoxygenase

Role of Lipoxigenase Metabolites in Ischemic Preconditioning, 457

Lung transplantation

Enhanced Preservation of Orthotopically Transplanted Rat Lungs by Nitroglycerin but Not Hydralazine: Requirement for Graft Vascular Homeostasis Beyond Harvest Vasodilation, 900

Lymphokines

Expression of Vascular Endothelial Growth Factor From a Defective Herpes Simplex Virus Type 1 Amplicon Vector Induces Angiogenesis in Mice, 161

Lysophosphatidylcholine

Low Concentration of Oxidized Low-Density Lipoprotein and Lysophosphatidylcholine Upregulate Constitutive Nitric Oxide Synthase mRNA Expression in Bovine Aortic Endothelial Cells, 958

M

M cell

Characteristics of the Delayed Rectifier Current (I_{Kr} and I_{Ks}) in Canine Ventricular Epicardial, Midmyocardial, and Endocardial Myocytes: A Weaker I_{Ks} Contributes to the Longer Action Potential of the M Cell, 351

Manganese

Regulation of Vascular Endothelial Growth Factor in Cardiac Myocytes, 758

Mast cell degranulation

Microvascular Responses to Inhibition of Nitric Oxide Production: Role of Active Oxidants, 30

MCP-1

Induction of Monocyte Chemoattractant Protein-1 Synthesis in Human Monocytes During Transendothelial Migration In Vitro, 750

Metabolic inhibition

Role of Calcium-Activated Neutral Protease (Calpain) in Cell Death in Cultured Neonatal Rat Cardiomyocytes During Metabolic Inhibition, 1071

Mice

Echocardiographic Assessment of Left Ventricular Mass and Systolic Function in Mice, 907

Microcirculation

ATP-Sensitive K^+ Channels Mediate α_{2D} -Adrenergic Receptor Contraction of Arteriolar Smooth Muscle and Reversal of Contraction by Hypoxia, 53

Dye Tracers Define Differential Endothelial and Smooth Muscle Coupling Patterns Within the Arteriolar Wall, 498

Interaction Between Conducted Vasodilation and Sympathetic Nerve Activation in Arterioles of Hamster Striated Muscle, 885

Local Continuity of Myocardial Blood Flow Studied by Monochromatic Synchrotron Radiation-Excited X-ray Fluorescence Spectrometry, 1088

Microiontophoresis

Interaction Between Conducted Vasodilation and Sympathetic Nerve Activation in Arterioles of Hamster Striated Muscle, 885

Microsphere

Heparin Increases Exercise-Induced Collateral Blood Flow in Rats With Femoral Artery Ligation, 448

Local Continuity of Myocardial Blood Flow Studied by Monochromatic Synchrotron Radiation-Excited X-ray Fluorescence Spectrometry, 1088

Migration

A Subpopulation of Smooth Muscle Cells in Injured Rat Arteries Expresses Platelet-Derived Growth Factor-B Chain mRNA, 951

Induction of Monocyte Chemoattractant Protein-1 Synthesis in Human Monocytes During Transendothelial Migration In Vitro, 750

Mitogen-activated protein kinase

Activation of Mitogen-Activated Protein Kinase in Porcine Carotid Arteries, 183

Angiotensin II and Other Hypertrophic Stimuli Mediated by G Protein-Coupled Receptors Activate Tyrosine Kinase, Mitogen-Activated Protein Kinase, and 90-kD S6 Kinase in Cardiac Myocytes: The Critical Role of Ca^{2+} -Dependent Signaling, 1

Calcium Signaling in Endothelial Cells Involves Activation of Tyrosine Kinases and Leads to Activation of Mitogen-Activated Protein Kinases, 522

Phosphotyrosine-Dependent Targeting of Mitogen-Activated Protein Kinase in Differentiated Contractile Vascular Cells, 1101

Molecular cloning

Inhibition of Vascular Smooth Muscle Cell Growth Through Antisense Transcription of a Rat Insulin-Like Growth Factor I Receptor cDNA, 963

Monocyte

Induction of Monocyte Chemoattractant Protein-1 Synthesis in Human Monocytes During Transendothelial Migration In Vitro, 750

Monocyte chemoattractant protein 1

Nitric Oxide Modulates the Expression of Monocyte Chemoattractant Protein 1 in Cultured Human Endothelial Cells, 980

Multiple antigenic peptide

Quantification of Myotrophin From Spontaneously Hypertensive and Normal Rat Hearts, 1020

Muscarinic receptor

Alterations in the Expression of the Genes Encoding Specific Muscarinic Receptor Subtypes in the Hypothalamus of Spontaneously Hypertensive Rats, 142

Calcitonin Gene-Related Peptide Mediates Acetylcholine-Induced Endothelium-Independent Vasodilation in Mesenteric Resistance Blood Vessels of the Rat, 935

Cardiac Muscarinic Potassium Channel Activity Is Attenuated by Inhibitors of $G_{\beta\gamma}$, 832

Impaired Function of Inhibitory G Proteins During Acute Myocardial Ischemia of Canine Hearts and Its Reversal

During Reperfusion and a Second Period of Ischemia: Possible Implications for the Protective Mechanism of Ischemic Preconditioning, 861

Muscle contraction

Heparin Increases Exercise-Induced Collateral Blood Flow in Rats With Femoral Artery Ligation, 448

Muscle fiber type

Heparin Increases Exercise-Induced Collateral Blood Flow in Rats With Femoral Artery Ligation, 448

Muscle-specific gene expression

A Retinoic Acid-Induced Clonal Cell Line Derived From Multipotential P19 Embryonal Carcinoma Cells Expresses Smooth Muscle Characteristics, 742

Muscle sympathetic nerve activity

Central Command Increases Muscle Sympathetic Nerve Activity During Intense Intermittent Isometric Exercise in Humans, 127

Myocardial architecture

The Stochastic Nature of Cardiac Propagation at a Microscopic Level: Electrical Description of Myocardial Architecture and Its Application to Conduction, 366

Myocardial blood flow

Mechanism of Impaired Myocardial Function During Progressive Coronary Stenosis in Conscious Pigs: Hibernation Versus Stunning? 479

Myocardial hibernation

Intraischemic Preconditioning: Increased Tolerance to Sustained Low-Flow Ischemia by a Brief Episode of No-Flow Ischemia Without Intermittent Reperfusion, 942

Myocardial ischemia

Adenosine-Recruitable Flow Reserve Is Absent During Myocardial Ischemia in Unanesthetized Dogs Studied in the Basal State, 1079

Impaired Function of Inhibitory G Proteins During Acute Myocardial Ischemia of Canine Hearts and Its Reversal During Reperfusion and a Second Period of Ischemia: Possible Implications for the Protective Mechanism of Ischemic Preconditioning, 861

Increased In Vivo Expression and Production of Endothelin-1 by Porcine Cardiomyocytes Subjected to Ischemia, 767

Inhibition of Nitric Oxide Synthesis Causes Myocardial Ischemia in Endotoxemic Rats, 418

Inositol Phosphate Release and Metabolism During Myocardial Ischemia and Reperfusion in Rat Heart, 261

Intraischemic Preconditioning: Increased Tolerance to Sustained Low-Flow Ischemia by a Brief Episode of No-Flow Ischemia Without Intermittent Reperfusion, 942

Local Continuity of Myocardial Blood Flow Studied by Monochromatic Synchrotron Radiation-Excited X-ray Fluorescence Spectrometry, 1088

Protective Role of Bradykinin in Cardiac Anaphylaxis: Coronary-Vasodilating and Antiarrhythmic Activities Mediated by Autocrine/Paracrine Mechanisms, 434

Role of Adenosine in Postischemic Dysfunction of Coronary Innervation, 95

Myocardial ischemia/reperfusion

Relationship Between Intracellular Calcium and Contractile Force in Stunned Myocardium: Direct Evidence for Decreased Myofilament Ca^{2+} Responsiveness and Altered Diastolic Function in Intact Ventricular Muscle, 1036

Myocardial membrane

Characterization of Bradykinin B_2 Receptors in Adult Myocardium and Neonatal Rat Cardiomyocytes, 773

Myocarditis

Antibody-Mediated Imbalance of Myocardial Energy Metabolism: A Causal Factor of Cardiac Failure? 64

Localization of Porcine Cardiac Myosin Epitopes That Induce Experimental Autoimmune Myocarditis, 726

Myocardium

Contraction-Induced Cell Wounding and Release of Fibroblast Growth Factor in Heart, 927

Myocytes

Arachidonic Acid-Dependent Phosphorylation of Troponin I and Myosin Light Chain 2 in Cardiac Myocytes, 1011

- Electrophysiological Effects of 4-Hydroxynonenal, an Aldehydic Product of Lipid Peroxidation, on Isolated Rat Ventricular Myocytes, 293
- Role of Calcium-Activated Neutral Protease (Calpain) in Cell Death in Cultured Neonatal Rat Cardiomyocytes During Metabolic Inhibition, 1071
- Myofibrillar proteins**
- Protein Kinase A Does Not Alter Economy of Force Maintenance in Skinned Rat Cardiac Trabeculae, 734
- Myofilament**
- Arachidonic Acid-Dependent Phosphorylation of Troponin I and Myosin Light Chain 2 in Cardiac Myocytes, 1011
- Myofilament Ca^{2+} sensitivity**
- Relationship Between Intracellular Calcium and Contractile Force in Stunned Myocardium: Direct Evidence for Decreased Myofilament Ca^{2+} Responsiveness and Altered Diastolic Function in Intact Ventricular Muscle, 1036
- Myosin**
- Localization of Porcine Cardiac Myosin Epitopes That Induce Experimental Autoimmune Myocarditis, 726
- MCI-154 Increases Ca^{2+} Sensitivity of Reconstituted Thin Filament: A Study Using a Novel In Vitro Motility Assay Technique, 626
- Myosin light chain**
- Myosin Light Chain-Actin Interaction Regulates Cardiac Contractility, 720
- Myotrophin**
- Quantification of Myotrophin From Spontaneously Hypertensive and Normal Rat Hearts, 1020

N

- Na^+**
- Na^+ - Ca^{2+} Exchange in Intact Endothelium of Rabbit Cardiac Valve, 396
- Na^+ and K^+ transport inhibitor**
- Pathways of Rb^+ Influx and Their Relation to Intracellular $[\text{Na}^+]$ in the Perfused Rat Heart: A ^{87}Rb and ^{23}Na NMR Study, 839
- Na^+ - Ca^{2+} exchange**
- Contribution of Na^+ - Ca^{2+} Exchange to Stimulation of Transient Inward Current by Isoproterenol in Rabbit Cardiac Purkinje Fibers, 664
- Effects of Action Potential Duration on Excitation-Contraction Coupling in Rat Ventricular Myocytes: Action Potential Voltage-Clamp Measurements, 790
- Na^+ - Ca^{2+} Exchange in Intact Endothelium of Rabbit Cardiac Valve, 396
- Na^+ channel**
- Functional Consequences of Sulfhydryl Modification in the Pore-Forming Subunits of Cardiovascular Ca^{2+} and Na^+ Channels, 325
- Na^+ - H^+ antiport**
- Na^+ - H^+ Exchanger Isoform 1 Phosphorylation in Normal Wistar-Kyoto and Spontaneously Hypertensive Rats, 825
- Na^+ - H^+ exchanger**
- Long-term High Osmolality Activates Na^+ - H^+ Exchange and Protein Kinase C in Aortic Smooth Muscle Cells, 530
- Na^+ -proton exchanger**
- Salt-Sensitive Hypertension in Transgenic Mice Overexpressing Na^+ -Proton Exchanger, 148
- Na^+ , K^+ -ATPase**
- Pathways of Rb^+ Influx and Their Relation to Intracellular $[\text{Na}^+]$ in the Perfused Rat Heart: A ^{87}Rb and ^{23}Na NMR Study, 839
- NADH fluorescence**
- Inhibition of Nitric Oxide Synthesis Causes Myocardial Ischemia in Endotoxemic Rats, 418
- Negative chronotropic effect**
- Negative Chronotropic Effect of Endothelin 1 Mediated Through ET_A Receptors in Guinea Pig Atria, 284
- Neointimal-medial growth**
- Restenosis After Experimental Angioplasty: Intimal, Medial, and Adventitial Changes Associated With Constrictive Remodeling, 996
- Neonatal cardiomyocytes**
- Inositol Phosphate Release and Metabolism in Rat Left Atria, 252
- Neonatal pulmonary circulation**
- Endothelium-Derived Nitric Oxide Plays a Larger Role in Pulmonary Veins Than in Arteries of Newborn Lambs, 559
- Neovascularization**
- Expression of Vascular Endothelial Growth Factor From a Defective Herpes Simplex Virus Type 1 Amplicon Vector Induces Angiogenesis in Mice, 161
- Regulation of Vascular Endothelial Growth Factor in Cardiac Myocytes, 758
- Neurogenic inflammation**
- Essential Role for Nitric Oxide in Neurogenic Inflammation in Rat Cutaneous Microcirculation: Evidence for an Endothelium-Independent Mechanism, 441
- Newborn**
- Molecular Basis of Human Cardiac Troponin T Isoforms Expressed in the Developing, Adult, and Failing Heart, 681
- Newborn rat**
- Continuous Nitric Oxide Inhalation Reduces Pulmonary Arterial Structural Changes, Right Ventricular Hypertrophy, and Growth Retardation in the Hypoxic Newborn Rat, 215
- Nitric oxide**
- cGMP and Nitric Oxide Modulate Thrombin-Induced Endothelial Permeability: Regulation via Different Pathways in Human Aortic and Umbilical Vein Endothelial Cells, 199
- Complement-Mediated Loss of Endothelium-Dependent Relaxation of Porcine Coronary Arteries: Role of the Terminal Membrane Attack Complex, 575
- Continuous Nitric Oxide Inhalation Reduces Pulmonary Arterial Structural Changes, Right Ventricular Hypertrophy, and Growth Retardation in the Hypoxic Newborn Rat, 215
- Essential Role for Nitric Oxide in Neurogenic Inflammation in Rat Cutaneous Microcirculation: Evidence for an Endothelium-Independent Mechanism, 441
- Exercise Training Augments Flow-Dependent Dilation in Rat Skeletal Muscle Arterioles: Role of Endothelial Nitric Oxide and Prostaglandins, 544
- Inhibition of Nitric Oxide Synthesis Causes Myocardial Ischemia in Endotoxemic Rats, 418
- Nitric Oxide Modulates the Expression of Monocyte Chemoattractant Protein 1 in Cultured Human Endothelial Cells, 980
- Nitric Oxide-Generating Compounds Inhibit Total Protein and Collagen Synthesis in Cultured Vascular Smooth Muscle Cells, 305
- Protective Role of Bradykinin in Cardiac Anaphylaxis: Coronary-Vasodilating and Antiarrhythmic Activities Mediated by Autocrine/Paracrine Mechanisms, 434
- Role of Extracellular and Intracellular Acidosis for Hypercapnia-Induced Inhibition of Tension of Isolated Rat Cerebral Arteries, 269
- Nitric oxide synthase mRNA**
- Low Concentration of Oxidized Low-Density Lipoprotein and Lysophosphatidylcholine Upregulate Constitutive Nitric Oxide Synthase mRNA Expression in Bovine Aortic Endothelial Cells, 958
- Nitro blue tetrazolium reduction**
- Circulating Leukocyte Counts, Activation, and Degranulation in Dahl Hypertensive Rats, 276
- Nitroglycerin**
- Enhanced Preservation of Orthotopically Transplanted Rat Lungs by Nitroglycerin but Not Hydralazine: Requirement for Graft Vascular Homeostasis Beyond Harvest Vasodilation, 900
- Nongenomic steroid action**
- Nongenomic Effects of Aldosterone on Intracellular Ca^{2+} in Vascular Smooth Muscle Cells, 973
- Nonlinear dynamics**
- Biphasic Restitution of Action Potential Duration and Complex Dynamics in Ventricular Myocardium, 915

Nonselective cation current

Oxygen-Derived Free Radical Stress Activates Nonselective Cation Current in Guinea Pig Ventricular Myocytes: Role of Sulfhydryl Groups, 812

Non-specific cationic current

Contribution of Na^+ - Ca^{2+} Exchange to Stimulation of Transient Inward Current by Isoproterenol in Rabbit Cardiac Purkinje Fibers, 664

Northern blot

Increased In Vivo Expression and Production of Endothelin-1 by Porcine Cardiomyocytes Subjected to Ischemia, 767

NS-398

Endothelium-Dependent Contractions Are Associated With Both Augmented Expression of Prostaglandin H Synthase-1 and Hypersensitivity to Prostaglandin H_2 in the SHR Aorta, 1003

Nuclear transcription factor

Nitric Oxide Modulates the Expression of Monocyte Chemoattractant Protein 1 in Cultured Human Endothelial Cells, 980

O**Oscillatory afterpotential**

Contribution of Na^+ - Ca^{2+} Exchange to Stimulation of Transient Inward Current by Isoproterenol in Rabbit Cardiac Purkinje Fibers, 664

Overexpression

Salt-Sensitive Hypertension in Transgenic Mice Overexpressing Na^+ -Proton Exchanger, 148

Oxidative stress

Electrophysiological Effects of 4-Hydroxynonenal, an Aldehydic Product of Lipid Peroxidation, on Isolated Rat Ventricular Myocytes, 293

Oxidized low-density lipoprotein

Low Concentration of Oxidized Low-Density Lipoprotein and Lysophosphatidylcholine Upregulate Constitutive Nitric Oxide Synthase mRNA Expression in Bovine Aortic Endothelial Cells, 958

Oxygen-derived free radical

Oxygen-Derived Free Radical Stress Activates Nonselective Cation Current in Guinea Pig Ventricular Myocytes: Role of Sulfhydryl Groups, 812

Oxygen supply/demand

Mechanism of Impaired Myocardial Function During Progressive Coronary Stenosis in Conscious Pigs: Hibernation Versus Stunning? 479

P**P₂ receptor**

Coexpression of P_{2Y} and P_{2U} Receptors on Aortic Endothelial Cells: Comparison of Cell Localization and Signaling Pathways, 191

Patch clamp

Propafenone Preferentially Blocks the Rapidly Activating Component of Delayed Rectifier K^+ Current in Guinea Pig Ventricular Myocytes: Voltage-Independent and Time-Dependent Block of the Slowly Activating Component, 223
Stable Expression and Coupling of Cardiac L-Type Ca^{2+} Channels With β_1 -Adrenoceptors, 335

Perforated patch

Acetylcholine Elicits a Rebound Stimulation of Ca^{2+} Current Mediated by Pertussis Toxin-Sensitive G Protein and cAMP-Dependent Protein Kinase A in Atrial Myocytes, 634

Perfusion heterogeneity

Patterns of Capillary Plasma Perfusion in Brains of Conscious Rats During Normocapnia and Hypercapnia, 120

Perfusion homogeneity

Patterns of Capillary Plasma Perfusion in Brains of Conscious Rats During Normocapnia and Hypercapnia, 120

Perivascular nerve stimulation

Interaction Between Conducted Vasodilation and Sympathetic Nerve Activation in Arterioles of Hamster Striated Muscle, 885

Permeability

cGMP and Nitric Oxide Modulate Thrombin-Induced Endothelial Permeability: Regulation via Different Pathways in Human Aortic and Umbilical Vein Endothelial Cells, 199

Pertussis toxin

Acetylcholine Elicits a Rebound Stimulation of Ca^{2+} Current Mediated by Pertussis Toxin-Sensitive G Protein and cAMP-Dependent Protein Kinase A in Atrial Myocytes, 634
Negative Chronotropic Effect of Endothelin 1 Mediated Through ET_A Receptors in Guinea Pig Atria, 284

pH

Role of Extracellular and Intracellular Acidosis for Hypercapnia-Induced Inhibition of Tension of Isolated Rat Cerebral Arteries, 269

Phorbol ester

Inhibition of the Spontaneous Rate of Contraction of Neonatal Cardiac Myocytes by Protein Kinase C Isozymes: A Putative Role for the ϵ Isozyme, 654

Phosphatidylinositol 4-monophosphate

Inositol Phosphate Release and Metabolism in Rat Left Atria, 252

Phosphodiesterase

Acetylcholine Elicits a Rebound Stimulation of Ca^{2+} Current Mediated by Pertussis Toxin-Sensitive G Protein and cAMP-Dependent Protein Kinase A in Atrial Myocytes, 634

Phospholamban

Patterns of Expression of Sarcoplasmic Reticulum Ca^{2+} -ATPase and Phospholamban mRNAs During Rat Heart Development, 616

Phosphorylation

Arachidonic Acid-Dependent Phosphorylation of Troponin I and Myosin Light Chain 2 in Cardiac Myocytes, 1011
Expression of Multiple Connexins in Cultured Neonatal Rat Ventricular Myocytes, 381
 Na^+ - H^+ Exchanger Isoform 1 Phosphorylation in Normal Wistar-Kyoto and Spontaneously Hypertensive Rats, 825

Phosphorylation potential

Antibody-Mediated Imbalance of Myocardial Energy Metabolism: A Causal Factor of Cardiac Failure? 64

Physiological cell death

Apoptosis (Programmed Cell Death) in Arteries of the Neonatal Lamb, 168

Plasma flow

Patterns of Capillary Plasma Perfusion in Brains of Conscious Rats During Normocapnia and Hypercapnia, 120

Plasma membrane

Contraction-Induced Cell Wounding and Release of Fibroblast Growth Factor in Heart, 927

Platelet-derived growth factor

A Subpopulation of Smooth Muscle Cells in Injured Rat Arteries Expresses Platelet-Derived Growth Factor-B Chain mRNA, 951

Platelet-derived growth factor receptor

A Subpopulation of Smooth Muscle Cells in Injured Rat Arteries Expresses Platelet-Derived Growth Factor-B Chain mRNA, 951

Platelet-leukocyte aggregation

Microvascular Responses to Inhibition of Nitric Oxide Production: Role of Active Oxidants, 30

Polymer-based drug delivery

c-myc in Vascuoproliferative Disease, 176

Porphyritic NO microsensor

Simultaneous Measurements of Ca^{2+} and Nitric Oxide in Bradykinin-Stimulated Vascular Endothelial Cells, 922

Positive inotropic effect

Effects of Doxorubicin on Excitation-Contraction Coupling in Guinea Pig Ventricular Myocardium, 645

Postischemic myocardial dysfunction

Effect of Adenosine on Myocardial 'Stunning' in the Dog, 82

Preconditioning

Effect of Adenosine on Myocardial 'Stunning' in the Dog, 82

Pressoreceptors

Modulation of Baroreceptor Activity by Nitric Oxide and S-Nitrosocysteine, 426

Pressure-volume area

Systolic Flow Augmentation in Hearts Ejecting Into a Model of Stiff Aging Vasculature: Influence on Myocardial Perfusion-Demand Balance, 132

Propafenone

Propafenone Preferentially Blocks the Rapidly Activating Component of Delayed Rectifier K^+ Current in Guinea Pig Ventricular Myocytes: Voltage-Independent and Time-Dependent Block of the Slowly Activating Component, 223

Prostaglandins

Exercise Training Augments Flow-Dependent Dilatation in Rat Skeletal Muscle Arterioles: Role of Endothelial Nitric Oxide and Prostaglandins, 544

Protease inhibitors

Role of Calcium-Activated Neutral Protease (Calpain) in Cell Death in Cultured Neonatal Rat Cardiomyocytes During Metabolic Inhibition, 1071

Protein kinase A

Forskolin Stimulates Swelling-Induced Chloride Current, Not Cardiac Cystic Fibrosis Transmembrane-Conductance Regulator Current, in Human Cardiac Myocytes, 1063

Protein kinase C

Arginine Vasopressin-Induced Potentiation of Unitary L-Type Ca^{2+} Channel Current in Guinea Pig Ventricular Myocytes, 592

Differentiation of Vascular Smooth Muscle Cells and the Regulation of Protein Kinase C- α , 21

Thrombin Induces the Prepro Endothelin-1 Gene in Endothelial Cells by a Protein Tyrosine Kinase-Linked Mechanism, 987

Unitary Chloride Channels Activated by Protein Kinase C in Guinea Pig Ventricular Myocytes, 317

Protein kinase C isoforms

Differentiation of Vascular Smooth Muscle Cells and the Regulation of Protein Kinase C- α , 21

Preconditioning of Isolated Rat Heart Is Mediated by Protein Kinase C, 73

Protein kinase C isozymes

Inhibition of the Spontaneous Rate of Contraction of Neonatal Cardiac Myocytes by Protein Kinase C Isozymes: A Putative Role for the ϵ Isozyme, 654

Protein synthesis

Angiotensin II-Induced Growth Responses in Isolated Adult Rat Hearts: Evidence for Load-Independent Induction of Cardiac Protein Synthesis by Angiotensin II, 489

Protein synthesis inhibitors

Nitric Oxide-Generating Compounds Inhibit Total Protein and Collagen Synthesis in Cultured Vascular Smooth Muscle Cells, 305

Protein tyrosine kinase

Thrombin Induces the Prepro Endothelin-1 Gene in Endothelial Cells by a Protein Tyrosine Kinase-Linked Mechanism, 987

Protein tyrosine kinase inhibitors

Inhibition of Vascular Smooth Muscle Cell K^+ Currents by Tyrosine Kinase Inhibitors Genistein and ST 638, 310

Proteolysis

Porcine Aortic Smooth Muscle Cells Secrete a Serine Protease for Insulin-like Growth Factor Binding Protein-2, 514

Proto-oncogenes

Angiotensin II-Induced Growth Responses in Isolated Adult Rat Hearts: Evidence for Load-Independent Induction of Cardiac Protein Synthesis by Angiotensin II, 489

Effects of Antisense *c-myc* Oligonucleotides on Vascular Smooth Muscle Cell Proliferation and Response to Vessel Wall Injury, 505

Pulmonary artery

In Vivo Adenovirus-Mediated Gene Transfer Via the Pulmonary Artery of Rats, 701

Inhibition of Vascular Smooth Muscle Cell K^+ Currents by Tyrosine Kinase Inhibitors Genistein and ST 638, 310

Pulmonary artery hypertension

Continuous Nitric Oxide Inhalation Reduces Pulmonary Arterial Structural Changes, Right Ventricular Hypertrophy, and Growth Retardation in the Hypoxic Newborn Rat, 215

Pulmonary hypertension

In Vivo Adenovirus-Mediated Gene Transfer Via the Pulmonary Artery of Rats, 701

R**Rabbit**

Modulation of Baroreceptor Activity by Nitric Oxide and S-Nitrosocysteine, 426

Molecular Basis of Human Cardiac Troponin T Isoforms Expressed in the Developing, Adult, and Failing Heart, 681

Rat

Molecular Basis of Human Cardiac Troponin T Isoforms Expressed in the Developing, Adult, and Failing Heart, 681

Rat heart

Inositol Phosphate Release and Metabolism During Myocardial Ischemia and Reperfusion in Rat Heart, 261

Pathways of Rb^+ Influx and Their Relation to Intracellular $[Na^+]$ in the Perfused Rat Heart: A ^{87}Rb and ^{23}Na NMR Study, 839

Rat mesenteric vascular bed

Calcitonin Gene-Related Peptide Mediates Acetylcholine-Induced Endothelium-Independent Vasodilation in Mesenteric Resistance Blood Vessels of the Rat, 935

 Rb^+ uptake

Pathways of Rb^+ Influx and Their Relation to Intracellular $[Na^+]$ in the Perfused Rat Heart: A ^{87}Rb and ^{23}Na NMR Study, 839

Reactive O_2 species

Effects of Hypoxanthine-Xanthine Oxidase on Ca^{2+} Stores and Protein Synthesis in Human Endothelial Cells, 388

Receptor coupling

ATP-Sensitive K^+ Channels Mediate α_{2D} -Adrenergic Receptor Contraction of Arteriolar Smooth Muscle and Reversal of Contraction by Hypoxia, 53

Recombinant apolipoproteins

Recombinant Apolipoprotein A-I_{Milano} Dimer Inhibits Carotid Intimal Thickening Induced by Perivascular Manipulation in Rabbits, 405

Regional myocardial function

Mechanism of Impaired Myocardial Function During Progressive Coronary Stenosis in Conscious Pigs: Hibernation Versus Stunning? 479

Regression of left ventricular hypertrophy

Regression of Left Ventricular Hypertrophy Prevents Ischemia-Induced Lethal Arrhythmias: Beneficial Effect of Angiotensin II Blockade, 892

Regulatory proteins

MCI-154 Increases Ca^{2+} Sensitivity of Reconstituted Thin Filament: A Study Using a Novel In Vitro Motility Assay Technique, 626

Reperfusion

Impaired Function of Inhibitory G Proteins During Acute Myocardial Ischemia of Canine Hearts and Its Reversal During Reperfusion and a Second Period of Ischemia: Possible Implications for the Protective Mechanism of Ischemic Preconditioning, 861

Inositol Phosphate Release and Metabolism During Myocardial Ischemia and Reperfusion in Rat Heart, 261

Postischemic Changes in Cardiac Sarcoplasmic Reticulum Ca^{2+} Channels: A Possible Mechanism of Ischemic Preconditioning, 1049

Restenosis

c-myc in Vasculoproliferative Disease, 176

Effects of Antisense *c-myc* Oligonucleotides on Vascular Smooth Muscle Cell Proliferation and Response to Vessel Wall Injury, 505

Recombinant Apolipoprotein A-I_{Milano} Dimer Inhibits Carotid Intimal Thickening Induced by Perivascular Manipulation in Rabbits, 405

Rete mirabile

Effects of Second Messengers on the Permeability and Morphology of Eel Rete Capillaries, 566

Reverse transcriptase-polymerase chain reaction

Expression, Genomic Organization, and Transcription of the Mouse Angiotensin II Type 2 Receptor Gene, 693

90-kD Ribosomal S6 kinase

Angiotensin II and Other Hypertrophic Stimuli Mediated by G Protein-Coupled Receptors Activate Tyrosine Kinase, Mitogen-Activated Protein Kinase, and 90-kD S6 Kinase in Cardiac Myocytes: The Critical Role of Ca^{2+} -Dependent Signaling, 1

S**Salt hypertension**

Circulating Leukocyte Counts, Activation, and Degranulation in Dahl Hypertensive Rats, 276

Sarcoplasmic reticulum

Inhibition and Rapid Recovery of Ca^{2+} Current During Ca^{2+} Release From Sarcoplasmic Reticulum in Guinea Pig Ventricular Myocytes, 102

Postischemic Changes in Cardiac Sarcoplasmic Reticulum Ca^{2+} Channels: A Possible Mechanism of Ischemic Preconditioning, 1049

Sarcoplasmic reticulum Ca^{2+} -ATPase

Patterns of Expression of Sarcoplasmic Reticulum Ca^{2+} -ATPase and Phospholamban mRNAs During Rat Heart Development, 616

Sarcoplasmic reticulum Ca^{2+} release

Effects of Doxorubicin on Excitation-Contraction Coupling in Guinea Pig Ventricular Myocardium, 645

Second messenger

Effects of Second Messengers on the Permeability and Morphology of Eel Rete Capillaries, 566

Sensory nerve

Essential Role for Nitric Oxide in Neurogenic Inflammation in Rat Cutaneous Microcirculation: Evidence for an Endothelium-Independent Mechanism, 441

Sepsis

Inhibition of Nitric Oxide Synthesis Causes Myocardial Ischemia in Endotoxemic Rats, 418

Shear stress

Nitric Oxide Synthesis by Cultured Endothelial Cells Is Modulated by Flow Conditions, 536

Signal transduction

Activation of Mitogen-Activated Protein Kinase in Porcine Carotid Arteries, 183

Phosphotyrosine-Dependent Targeting of Mitogen-Activated Protein Kinase in Differentiated Contractile Vascular Cells, 1101

Sinoatrial nodal cells

Effects of Delayed Rectifier Current Blockade by E-4031 on Impulse Generation in Single Sinoatrial Nodal Myocytes of the Rabbit, 607

Sinoatrial node

Spatial Distribution of Connexin43, the Major Cardiac Gap Junction Protein, Visualizes the Cellular Network for Impulse Propagation From Sinoatrial Node to Atrium, 802

Skeletal muscle

Rate of Tension Development in Cardiac Muscle Varies With Level of Activator Calcium, 154

Skinned fiber

Myosin Light Chain-Actin Interaction Regulates Cardiac Contractility, 720

Smooth muscle

Activation of Mitogen-Activated Protein Kinase in Porcine Carotid Arteries, 183

Smooth muscle cell proliferation

Effects of Antisense *c-myc* Oligonucleotides on Vascular Smooth Muscle Cell Proliferation and Response to Vessel Wall Injury, 505

Recombinant Apolipoprotein A- I_{Milano} Dimer Inhibits Carotid Intimal Thickening Induced by Perivascular Manipulation in Rabbits, 405

Smooth muscle differentiation

A Retinoic Acid-Induced Clonal Cell Line Derived From Multipotential P19 Embryonal Carcinoma Cells Expresses Smooth Muscle Characteristics, 742

Sodium nitroprusside

Dilatation of Cerebral Arterioles in Response to Activation of Adenylate Cyclase Is Dependent on Activation of Ca^{2+} -Dependent K^{+} Channels, 1057

Soluble complement receptor type 1

Complement-Mediated Loss of Endothelium-Dependent Relaxation of Porcine Coronary Arteries: Role of the Terminal Membrane Attack Complex, 575

Somatostatin

Porcine Aortic Smooth Muscle Cells Secrete a Serine Protease for Insulin-like Growth Factor Binding Protein-2, 514

Spontaneously hypertensive rat

Alterations in the Expression of the Genes Encoding Specific Muscarinic Receptor Subtypes in the Hypothalamus of Spontaneously Hypertensive Rats, 142

Differentiation of Vascular Smooth Muscle Cells and the Regulation of Protein Kinase C- α , 21

Quantification of Myotrophin From Spontaneously Hypertensive and Normal Rat Hearts, 1020

Stochastic propagation

The Stochastic Nature of Cardiac Propagation at a Microscopic Level: Electrical Description of Myocardial Architecture and Its Application to Conduction, 366

Stress-strain relation

Arterial Wall Mechanics in Conscious Dogs: Assessment of Viscous, Inertial, and Elastic Moduli to Characterize Aortic Wall Behavior, 468

Subendocardial flow

Adenosine-Recrutable Flow Reserve Is Absent During Myocardial Ischemia in Unanesthetized Dogs Studied in the Basal State, 1079

Substance P

Complement-Mediated Loss of Endothelium-Dependent Relaxation of Porcine Coronary Arteries: Role of the Terminal Membrane Attack Complex, 575

Essential Role for Nitric Oxide in Neurogenic Inflammation in Rat Cutaneous Microcirculation: Evidence for an Endothelium-Independent Mechanism, 441

Sudden cardiac death

Regression of Left Ventricular Hypertrophy Prevents Ischemia-Induced Lethal Arrhythmias: Beneficial Effect of Angiotensin II Blockade, 892

Sulfhydryl groups

Oxygen-Derived Free Radical Stress Activates Nonselective Cation Current in Guinea Pig Ventricular Myocytes: Role of Sulfhydryl Groups, 812

Sulfhydryl oxidation

Functional Consequences of Sulfhydryl Modification in the Pore-Forming Subunits of Cardiovascular Ca^{2+} and Na^{+} Channels, 325

Swelling

Forskolin Stimulates Swelling-Induced Chloride Current, Not Cardiac Cystic Fibrosis Transmembrane-Conductance Regulator Current, in Human Cardiac Myocytes, 1063

Sympathetic coronary vasoconstriction

Role of Adenosine in Postischemic Dysfunction of Coronary Innervation, 95

Systolic hypertension

Systolic Flow Augmentation in Hearts Ejecting Into a Model of Stiff Aging Vasculature: Influence on Myocardial Perfusion-Demand Balance, 132

T**Tenidap**

Endothelium-Dependent Contractions Are Associated With Both Augmented Expression of Prostaglandin H Synthase-1 and Hypersensitivity to Prostaglandin H_2 in the SHR Aorta, 1003

Thapsigargin

Effects of Hypoxanthine-Xanthine Oxidase on Ca^{2+} Stores and Protein Synthesis in Human Endothelial Cells, 388

Thrombin

Effects of Hypoxanthine-Xanthine Oxidase on Ca^{2+} Stores and Protein Synthesis in Human Endothelial Cells, 388

Thrombin Induces the Prepro Endothelin-1 Gene in Endothelial Cells by a Protein Tyrosine Kinase-Linked Mechanism, 987

Thromboplastin

K⁺ Channel Blockers Inhibit Tissue Factor Expression by Human Monocytic Cells, 16

Thromboxane

Endothelium-Dependent Contractions Are Associated With Both Augmented Expression of Prostaglandin H Synthase-1 and Hypersensitivity to Prostaglandin H₂ in the SHR Aorta, 1003

Tissue specificity

Conservation of an AE3 Cl⁻/HCO₃⁻ Exchanger Cardiac-Specific Exon and Promoter Region and AE3 mRNA Expression Patterns in Murine and Human Hearts, 584

Torsade de pointes

Cardiac Electrophysiological Actions of the Histamine H₁-Receptor Antagonists Astemizole and Terfenadine Compared With Chlorpheniramine and Pyrilamine, 110

Transcription

Alterations in the Expression of the Genes Encoding Specific Muscarinic Receptor Subtypes in the Hypothalamus of Spontaneously Hypertensive Rats, 142

Transcription factors

A Retinoic Acid-Induced Clonal Cell Line Derived From Multipotential P19 Embryonal Carcinoma Cells Expresses Smooth Muscle Characteristics, 742

Transfection

Inhibition of Vascular Smooth Muscle Cell Growth Through Antisense Transcription of a Rat Insulin-Like Growth Factor I Receptor cDNA, 963

Transgenic mouse

Salt-Sensitive Hypertension in Transgenic Mice Overexpressing Na⁺-Proton Exchanger, 148

Transgenics

Echocardiographic Assessment of Left Ventricular Mass and Systolic Function in Mice, 907

Transplantation

Rapamycin-FKBP Inhibits Cell Cycle Regulators of Proliferation in Vascular Smooth Muscle Cells, 412

Troponin T

Diminished Ca²⁺ Sensitivity of Skinned Cardiac Muscle Contractility Coincident With Troponin T-Band Shifts in the Diabetic Rat, 600

Human Cardiac Troponin T: Cloning and Expression of New Isoforms in the Normal and Failing Heart, 687

Tyrosine phosphorylation

Phosphotyrosine-Dependent Targeting of Mitogen-Activated Protein Kinase in Differentiated Contractile Vascular Cells, 1101

V

V₁ receptor

Arginine Vasopressin-Induced Potentiation of Unitary L-Type Ca²⁺ Channel Current in Guinea Pig Ventricular Myocytes, 592

Vascular permeability

Microvascular Responses to Inhibition of Nitric Oxide Production: Role of Active Oxidants, 30

Vascular remodeling

Restenosis After Experimental Angioplasty: Intimal, Medial, and Adventitial Changes Associated With Constrictive Remodeling, 996

Vascular smooth muscle

ATP-Sensitive K⁺ Channels Mediate α_{2D} -Adrenergic Receptor Contraction of Arteriolar Smooth Muscle and Reversal of Contraction by Hypoxia, 53

Inhibition of Vascular Smooth Muscle Cell K⁺ Currents by Tyrosine Kinase Inhibitors Genistein and ST 638, 310

Integrin-Mediated Collagen Matrix Reorganization by Cultured Human Vascular Smooth Muscle Cells, 209

Na⁺-H⁺ Exchanger Isoform 1 Phosphorylation in Normal Wistar-Kyoto and Spontaneously Hypertensive Rats, 825

Nitric Oxide-Generating Compounds Inhibit Total Protein and Collagen Synthesis in Cultured Vascular Smooth Muscle Cells, 305

Phosphotyrosine-Dependent Targeting of Mitogen-Activated Protein Kinase in Differentiated Contractile Vascular Cells, 1101

Vascular smooth muscle activation function

Arterial Wall Mechanics in Conscious Dogs: Assessment of Viscous, Inertial, and Elastic Moduli to Characterize Aortic Wall Behavior, 468

Vascular smooth muscle cells

Differentiation of Vascular Smooth Muscle Cells and the Regulation of Protein Kinase C- α , 21

Long-term High Osmolality Activates Na⁺-H⁺ Exchange and Protein Kinase C in Aortic Smooth Muscle Cells, 530

Nongenomic Effects of Aldosterone on Intracellular Ca²⁺ in Vascular Smooth Muscle Cells, 973

Vasoactive agents

Coenzyme A Glutathione Disulfide: A Potent Vasoconstrictor Derived From the Adrenal Gland, 675

Vasopressin

Hormonal Dependence of the Effects of Metabolic Encephalopathy on Cerebral Perfusion and Oxygen Utilization in the Rat, 551

Ventricular arrhythmias

Biphasic Restitution of Action Potential Duration and Complex Dynamics in Ventricular Myocardium, 915

Ventricular myocardium

Characteristics of the Delayed Rectifier Current (I_{Kr} and I_{Ks}) in Canine Ventricular Epicardial, Midmyocardial, and Endocardial Myocytes: A Weaker I_{Ks} Contributes to the Longer Action Potential of the M Cell, 351

Ventricular myocytes

Effects of Doxorubicin on Excitation-Contraction Coupling in Guinea Pig Ventricular Myocardium, 645

Oxygen-Derived Free Radical Stress Activates Nonselective Cation Current in Guinea Pig Ventricular Myocytes: Role of Sulfhydryl Groups, 812

Propafenone Preferentially Blocks the Rapidly Activating Component of Delayed Rectifier K⁺ Current in Guinea Pig Ventricular Myocytes: Voltage-Independent and Time-Dependent Block of the Slowly Activating Component, 223

W

Wall shear stress

Exercise Training Augments Flow-Dependent Dilation in Rat Skeletal Muscle Arterioles: Role of Endothelial Nitric Oxide and Prostaglandins, 544

Whole-cell patch

Acetylcholine Elicits a Rebound Stimulation of Ca²⁺ Current Mediated by Pertussis Toxin-Sensitive G Protein and cAMP-Dependent Protein Kinase A in Atrial Myocytes, 634

Whole-cell steady state current

Oxygen-Derived Free Radical Stress Activates Nonselective Cation Current in Guinea Pig Ventricular Myocytes: Role of Sulfhydryl Groups, 812